# CONSTRUCTION NEWS

## PROPOSALS

**For proposals Advertised see the pages immediately following the "Construction News" Section.**

### WATERWORKS

| Bids Close | | See Eng. News-Record |
|---|---|---|
| May 22 | Brooklyn, N. Y. | May 18 |
| May 23 | Oklahoma City, Okla. | May 11 |
| May 23 | West Point, Ia. | May 18 |
| May 24 | Wash., D. C.<br>Adv. May 18. | May 18 |
| May 25 | Henryetta, Okla.<br>Adv. May 4 to 18. | May 4 |
| May 25 | Germantown, O. | May 11 |
| May 26 | Moore Haven, Fla. | May 11 |
| May 27 | Wellsville, O.<br>Adv. May 11 and 18. | May 11 |
| May 29 | Monroe, Mich.<br>Adv. May 11 and 18. | May 11 |
| May 31 | Thief River Falls, Minn. | May 11 |
| June 1 | Bay City, Mich. | May 11 |
| June 1 | Birmingham, Mich.<br>Adv. May 18. | May 18 |
| June 5 | Euclid, O. | May 18 |
| June 5 | North Tonawanda, N. Y. | May 18 |
| June 6 | Ely, Minn. | May 11 |
| June 12 | Sioux Falls, S. D.<br>Adv. May 11 and 18. | May 11 |

### SEWERS

| Bids Close | | See Eng. News-Record |
|---|---|---|
| May 22 | Hamilton, Ont. | May 4 |
| May 22 | College View, Neb. | May 11 |
| May 22 | Long Island City, N. Y. | May 18 |
| May 23 | Louisville, Ky. | May 11 |
| May 23 | Center, Tex. | May 18 |
| May 24 | Pendelton, Ore. | May 11 |
| May 24 | Mt. Pleasant, Ia. | May 18 |
| May 25 | St. Catherines, Ont. | May 18 |
| May 26 | Barnesville, O.<br>Adv. May 18. | May 18 |
| May 29 | Quebec | May 18 |
| May 31 | Thief River Falls, Minn. | May 11 |
| May 31 | Paducah, Ky.<br>Adv. May 11 and 18. | May 11 |
| May 31 | Ann Arbor, Mich. | May 18 |
| May 31 | Paterson, N. J. | May 18 |
| June 1 | East Aurora, N. Y. | May 11 |
| June 1 | Lima, O. | Apr. 13 |
| June 1 | Phila., Pa. | May 18 |
| June 5 | Hackensack, N. J.<br>Adv. May 11 and 18. | May 11 |
| June 5 | Euclid, O. | May 18 |
| June 6 | Huntingburg, Ind.<br>Adv. May 11 and 18. | May 11 |
| June 6 | Lexington, N. C.<br>Adv. May 18. | May 18 |
| June 6 | Wilson, N. Y.<br>Adv. May 18. | May 18 |
| June 6 | Westbrook, Minn. | May 18 |
| June 7 | Wash., D. C.<br>Adv. May 18. | May 18 |
| July 1 | Hamburg, N. Y. | May 18 |

### BRIDGES

| Bids Close | | See Eng. News-Record |
|---|---|---|
| May 20 | Cheektowaga, (Forks, P. O.) N. Y.<br>Adv. May 11 and 18. | May 11 |
| May 22 | Carroll, Ia. | May 11 |
| May 23 | Washington, Ga. | May 18 |
| May 24 | Montezuma, Ia. | May 18 |
| May 25 | North Carolina | May 4 |
| May 25 | North Carolina | May 11 |
| May 25 | Bloomfield, Ia. | May 18 |
| May 26 | Farrell, Pa. | May 11 |
| May 26 | Missouri | May 18 |
| May 29 | Green Bay, Wis. | May 11 |
| May 29 | New Jersey<br>Adv. May 11 and 18. | May 11 |
| May 31 | Phila., Pa.<br>Adv. May 4 to 18. | May 4 |
| June 1 | Washington | May 4 |
| June 1 | Phila., Pa. | May 18 |
| June 3 | Seattle, Wash.<br>Adv. May 11 and 18. | May 11 |
| June 3 | Moraine (Dayton P. O.), O. | May 11 |
| June 12 | Woodstown, N. J.<br>Adv. May 18. | May 18 |
| June 14 | New Haven, Conn.<br>Adv. May 18. | May 18 |
| June 14 | Corning, Ia. | May 18 |
| July 5 | Sturgis, S. D. | May 18 |
| Oct. 31 | Sydney, Australia | Jan. 12 |

### DAMS

| Bids Close | | See Eng. News-Record |
|---|---|---|
| May 23 | Stamford, Conn. | May 4 |
| May 25 | Columbus, O. | May 11 |

### EXCAVATION AND DREDGING

| Bids Close | | See Eng. News-Record |
|---|---|---|
| May 22 | Greenville, Miss. | Apr. 20 |
| May 24 | Grenada, Cal. | May 18 |
| May 27 | Ladysmith, Wis. | May 18 |
| May 29 | Fayette, Ala. | Apr. 27 |
| June 1 | Bemidji, Minn. | May 18 |
| June 8 | Boonville, Ind.<br>Adv. May 18. | May 18 |
| June 15 | Eudora, Ark.<br>Adv. May 18. | May 18 |

### STREETS AND ROADS

| Bids Close | | See Eng. News-Record |
|---|---|---|
| May 19 | New York<br>Adv. May 11 and 18. | May 18 |
| May 20 | Worthington, O. | May 18 |
| May 22 | Trinidad, Col. | Apr. 20 |
| May 22 | Sherbrooke, Que. | May 18 |
| May 22 | Moundsville, W. Va. | May 18 |
| May 22 | Kingsley, Ia. | May 11 |
| May 22 | Aberdeen, S. D. | May 11 |
| May 22 | Ebensburg, Pa. | May 11 |
| May 22 | Oil City, Pa. | May 4 |
| May 22 | California | May 4 |
| May 23 | Omaha, Neb. | May 4 |
| May 23 | Bushnell, Fla. | May 11 |
| May 23 | Newton, N. J.<br>Adv. May 11 and 18. | May 11 |
| May 23 | Maryland<br>Adv. May 11 and 18. | May 11 |
| May 23 | Michigan | May 11 |
| May 23 | Viroqua, Wis. | May 11 |
| May 23 | Walla Walla, Wash. | May 11 |
| May 23 | Rockingham, N. C.<br>Adv. May 18. | May 18 |
| May 23 | Columbus, O. | May 18 |
| May 23 | Georgia | May 18 |
| May 23 | Oxnard, Cal. | May 18 |
| May 23 | Michigan | May 18 |
| May 23 | Wisconsin | May 18 |
| May 23 | Johnson City, N. Y. | May 18 |
| May 24 | Homestead, Fla. | May 18 |
| May 24 | Welland, Ont. | May 18 |
| May 24 | Michigan | May 18 |
| May 24 | Cresco, Ia. | May 18 |
| May 24 | Montezuma, Ia. | May 18 |
| May 24 | Brooklyn, N. Y. | May 18 |
| May 25 | New York, N. Y. | May 18 |
| May 25 | Brooklyn, N. Y. | May 18 |
| May 25 | North Carolina<br>Adv. May 11 and 18. | May 4 |
| May 25 | St. Augustine, Fla.<br>Adv. Apr. 20 to May 18. | Apr. 20 |
| May 25 | Missouri | May 18 |
| May 25 | Bloomfield, Ia. | May 18 |
| May 25 | Michigan | May 18 |
| May 25 | St. Catherines, Ont. | May 18 |
| May 26 | Columbus, O. | May 4 |
| May 26 | Toms River, N. J.<br>Adv. May 11 and 18. | May 11 |
| May 26 | Somerville, N. J.<br>Adv. May 11 and 18. | May 11 |
| May 26 | Emporia, Kan.<br>Adv. May 11 and 18. | May 11 |
| May 26 | Colorado | May 18 |
| May 26 | Missouri | May 18 |
| May 26 | Maine | May 18 |
| May 26 | Cleveland, O. | May 18 |
| May 26 | Connecticut<br>Adv. May 18. | May 18 |
| May 27 | Goshen, Ind. | May 18 |
| May 27 | Dayton, O. | May 11 |
| May 27 | Sullivan, Ind. | May 11 |
| May 29 | Plainfield, N. J.<br>Adv. May 11 and 18. | May 11 |
| May 29 | Ebensburg, Pa. | May 11 |
| May 29 | San Diego, Cal. | May 18 |
| May 29 | Ebensburg, Pa. | May 18 |
| May 29 | Quebec | May 18 |
| May 29 | Santa Rosa, Cal. | May 18 |
| May 30 | Pensacola, Fla.<br>Adv. May 18. | May 18 |
| May 30 | Quebec | May 18 |
| May 31 | Manchula, Fla. | Apr. 13 |
| May 31 | Ridgefield Park, N. J.<br>Adv. May 11 and 18. | May 11 |
| May 31 | Albuquerque, N. M.<br>Adv. May 11 and 18. | May 11 |
| May 31 | South Carolina | May 11 |
| May 31 | Ohio | May 18 |
| May 31 | Ebensburg, Pa. | May 18 |
| May 31 | Sumter, S. C. | May 18 |
| May 31 | Bridgeton, N. J.<br>Adv. May 18. | May 18 |
| June 1 | Seneca Falls, N. Y.<br>Adv. May 18. | May 18 |
| June 1 | Charleston, S. C. | May 11 |
| June 1 | Charles City, Ia. | May 18 |
| June 1 | Wyoming | May 18 |
| June 1 | Corydon, Ia. | May 18 |
| June 2 | Belvidere, N. J.<br>Adv. May 11 and 18. | May 11 |
| June 2 | Olympia, Wash. | May 18 |

| Bids Close | | See Eng. News-Record |
|---|---|---|
| June 5 | California | May 18 |
| June 5 | Susquehanna, Pa.<br>Adv. May 18. | May 18 |
| June 5 | Dallas, Tex. | May 18 |
| June 5 | Scotia, N. Y.<br>Adv. May 18. | May 18 |
| June 6 | Trenton, N. J.<br>Adv. May 18. | May 18 |
| June 6 | Alabama | May 18 |
| June 6 | Rochester, N. Y.<br>Adv. May 11 and 18. | May 11 |
| June 6 | West Virginia<br>Adv. May 18. | May 18 |
| June 7 | Ft. Myers, Fla. | Apr. 27 |
| June 7 | Belvidere, N. J.<br>Adv. May 18. | May 18 |
| June 9 | Tennessee | May 18 |
| June 12 | Berkeley Springs, W. Va.—<br>Adv. May 11 and 18. | May 11 |
| June 14 | Corning, Ia. | May 18 |

### INDUSTRIAL WORK

| Bids Close | | See Eng. News-Record |
|---|---|---|
| May 23 | New York, N. Y.<br>Adv. Apr. 27 to May 18. | Apr. 27 |
| May 24 | Moorhead, Minn. | May 18 |
| May 26 | Brooklyn, N. Y. | May 18 |
| May 29 | Altoona, Pa. | May 18 |

### BUILDINGS

| Bids Close | | See Eng. News-Record |
|---|---|---|
| May 18 | Hackensack, N. J.<br>Adv. May 4 and 18. | May 4 |
| May 22 | Erie, Pa. | May 4 |
| May 22 | Holland, Mich. | May 4 |
| May 22 | Newington, Conn. | May 11 |
| May 22 | Imlay City, Mich. | May 11 |
| May 23 | Grand Forks, N. D. | May 11 |
| May 23 | Clyde, O. | May 4 |
| May 23 | Raleigh, N. C. | May 18 |
| May 23 | Winston-Salem, N. C. | May 18 |
| May 23 | Detroit, Mich. | May 18 |
| May 24 | North Ridgeville, O. | May 18 |
| May 24 | Santa Fe, N. M. | May 18 |
| May 25 | Columbus, O. | May 4 |
| May 25 | Elizabeth City, N. C. | May 11 |
| May 25 | Cortland, N. Y. | May 11 |
| May 25 | Ithaca, N. Y.<br>Adv. May 11 and 18. | May 11 |
| May 25 | Mazomanie, Wis. | May 11 |
| May 25 | Cleveland, O. | May 11 |
| May 25 | Verona, N. J. | May 18 |
| May 25 | Preston, Minn. | May 18 |
| May 25 | Grand Rapids, Mich. | May 18 |
| May 25 | Terra Alta, W. Va. | May 18 |
| May 26 | Charleston, W. Va. | May 18 |
| May 27 | Roseville (Halfway P. O.), Mich. | May 18 |
| May 29 | Columbus, O. | May 11 |
| May 29 | San Mateo, Cal. | May 18 |
| May 29 | Murfreesboro, Cal. | May 18 |
| May 31 | Solvay (Syracuse P. O.), N. Y. | May 18 |
| May 31 | Virginia, Minn. | May 18 |
| June 1 | Montrose, Col. | May 18 |
| June 1 | Memphis, Tenn. | May 11 |
| June 1 | Jonesboro, Ark. | May 4 |
| June 1 | Scottsbluff, Neb. | May 4 |
| June 2 | New York, N. Y. | May 4 |
| June 3 | Trotwood, O. | May 11 |
| June 3 | Mason City, Ia. | May 11 |
| June 5 | Clayton, O. | May 11 |
| June 8 | Minneapolis, Minn. | May 11 |
| June 8 | Lincoln, Neb.<br>Adv. May 11 and 18. | May 11 |
| June 8 | Greensboro, N. C. | May 18 |
| June 24 | Winchester, Va.<br>Adv. May 18. | May 18 |
| July 1 | Perry, N. Y. | May 4 |

### FEDERAL GOVERNMENT WORK

| Bids Close | | See Eng. News-Record |
|---|---|---|
| May 22 | Extension to Workroom, etc. —Jamestown, N. Y. | May 4 |
| May 22 | Road Work, Oregon | May 18 |
| May 24 | Reservoir and Dispensary — Yorktown, Va. | May 18 |
| May 25 | Quarters—Ft. Bliss, Tex.<br>Adv. May 4 to 18. | May 4 |
| May 25 | Removal of Wreck—Montgomery, Ala.<br>Adv. Apr. 27 to May 18. | May 4 |
| May 29 | Remodeling, etc.—Buffalo, N. Y. | May 4 |
| May 31 | Dwelling, etc.—Point Isabel, Tex. | May 4 |
| May 31 | Post Office—Dawson, Ga. | May 11 |
| May 31 | Roof—New York, N. Y. | May 18 |
| June 1 | Dredging—Chicago, Ill.<br>Adv. May 18. | May 18 |
| June 5 | Post Office — Front Royal, Va.<br>Adv. May 18. | May 18 |

| Bids Close | | See Eng. News-Record |
|---|---|---|
| June 6 | Canals, etc.—Great Falls, Mont. | Apr. 27 |
| June 7 | Machine Shop—Pearl Harbor, H. T. | Apr. 13 |
| June 7 | Boathouse, etc.—Point Judith, R. I.<br>Adv. May 18. | May 18 |
| June 9 | Barracks, etc. — Boston, Mass.<br>Adv. May 18. | May 18 |
| June 28 | Drainage—Malta, Mont.<br>Adv. May 18. | May 18 |

## MISCELLANEOUS

| | | |
|---|---|---|
| May 20 | Cement, Stone, Lumber, etc. —Montreal, Que. | May 18 |
| May 22 | Bulkhead — New York, N. Y. | May 18 |
| May 22 | Stones—Yonkers, N. Y.<br>Adv. May 11 and 18. | May 11 |
| May 22 | Power Plant Equipment — Ames, Ia. | May 11 |
| May 22 | Repairing Dike, etc.—Revere, Mass. | May 11 |
| May 22 | Engine and Pump—Dickinson, N. D. | May 11 |
| May 22 | Road Oil—Madison, Wis. | May 18 |
| May 22 | Sand, etc.—New York, N. Y. | May 18 |
| May 23 | Electrical Operating Equipment—Fremont, Wis. | May 18 |
| May 25 | Cement, etc.—New York, N. Y. | May 18 |
| May 25 | Wood Paving Blocks—New York, N. Y. | May 18 |
| May 26 | Bulkhead Platform — New York, N. Y. | May 18 |
| May 26 | Brick, etc.—Cleveland, O. | May 18 |
| May 26 | Bituminous Concrete, etc. — Trenton, N. J.<br>Adv. May 11 and 18. | May 11 |
| May 27 | Race Track, etc.—Sedalia, Mo. | Apr. 13 |
| May 31 | Stadium—Chicago, Ill. | May 11 |
| May 31 | Bulkhead—Chicago, Ill. | May 11 |
| June 1 | Bridge Paint — Lansing, Mich.<br>Adv. May 18. | May 18 |
| June 5 | Dumping Scows—New York, N. Y. | May 18 |
| June 6 | Tainter Gate, etc.—Baldwinsville, N. Y.<br>Adv. May 11 and 18. | May 11 |
| July 19 | Turbine and Accessories — New Orleans, La.<br>Adv. May 18. | May 18 |

**Where name of official is not given inquiries should be addressed to City Clerk, County Clerk or corresponding official.**

# Waterworks

### PROPOSED WORK

**N. Y., Kenmore**—Plans extending water supply system. $18,000-$20,000. W. Ducker, pres. village bd.

**N. Y., Syracuse**—Plans 4,000 ft. mains in Whittier, Coleridge and Avery Aves. $75,000. T. H. Mather, City Hall, engr.

**N. Y., Voorheesville**—Water Bd. making plans for new and increased water supply. W. W. Chadsey, 434 State St., Schenectady, engr.

**Pa., Phila.**—Soon takes bids installing ash and coal handling equipment at Queens Lane pumping plant. $25,000. C. E. Davis, City Hall, engr.

**Pa., Phila.**—Soon takes bids furnishing and installing pumping units at Larners Point pumping station, $35,000, also for quantity of patent sleeves, stop valves, and water pipe, $12,000. C. E. Davis, City Hall, engr.

**Fla., Auburndale**—Voted $30,000 bonds for waterworks. W. L. Mason, clk.

**Wis., Madison** — Making plans drilling deep well with necessary equipment and machinery. Mead & Seastone, State Journal Blk., engrs.

**Wis., Madison**—Sold $40,000 bonds for additions to waterworks system incl. mains. E. E. Parker, City Hall, engr.

**Wis., Reedsburg**—Having surveys made by W. G. Kirchoffer, engr. Vroman Block, Madison, for waterworks system and additional water supply. $15,000. E. A. Bohn, Supt.

**Ia., Adel**—Making plans improving waterworks, incl. purification plant and probably new well. $15,000. L. Higgins, Des Moines, engr.

**Okla., Hockerville** — Plans waterworks plant and mains. $25,000. H. B. Kelly, clk.

**Okla., Purcell**—See "Streets and Roads."

**Okla., Wewoka**—Soon takes bids for waterworks and filtration plant. Benham Eng. Co., Firestone Bldg., Kansas City, Mo., engrs.

**Wyo., Newcastle**—Voted $35,000 bonds to extend waterworks.

**Nev., Elko City**—Sold $180,000 bonds, $150,000 of which will be used to purchase present privately owned waterworks and $30,000 for improving and extending same.

**N. B., Campbellton**—See "Sewers."

**Ont., Walkerville**—Walkerville Water Co. plans to extend 4 and 6 in. c.i. mains to suburbs, etc. $30,000. Prices wanted on all materials. C. D. Brown, c/o owners, engr.

### BIDS DESIRED

**N. Y., North Tonawanda**—June 5, by Bd. Pub. Wks., filtration plant. C. F. Oelkers, City Hall, engr. Noted Feb. 9.

**N. Y., Wilson**—See "Sewers."

**D. C., Wash.**—May 24, by Washington Suburban Sanitary Comn., Evans Bldg., New York Ave., c.i. pipe and fittings. R. B. Morse, Hyattsville, Md., ch. engr. of dist.; adv. this issue.

**D. C., Wash.**—See "Sewers."

**O., Euclid**—June 5, c.i. mains in Arbor Ave., Parkhurst Dr., Farrington and Drakefield Rds. $25,000. F. A. Pease Eng. Co., Marshall Bldg., Cleveland, engrs.

**Mich., Birmingham**—June 1, by Village Comrs. at office of H. E. Clark, clk., extending waterworks system. F. F. Van Tuyl, 1112 Union Trust Bldg., Detroit, consult. engr.

**Ia., West Point**—May 23, by J. Walljasper, clk., tower, tank, pump, motor and 8,500 ft. c.i. mains. M. G. Hall Co., Centerville, engrs.

### CONTRACTS AWARDED

**Vt., Bennington**—Bd. Water Comrs., 19,500 ft. 10 in. B and S c.i. water pipe, to R. D. Wood & Co., 400 Chestnut St., Phila., $1.50 per ft. Noted May 4.

**Mich., Port Huron**—Improving and building additions to waterworks system, incl. concrete intake well, intake pipes, etc., to Amer. Constr. Co., Marion Bldg., Cleveland, O., $41,500. Noted April 6.

**Ill., Pana**—Reservoir dam to Sell & Kollar, Pana, $43,146. Noted April 20.

**Wis., Delavan**—Extension to waterworks, incl. ½ mi. 8 in. force main, pump house and 30 ft. open well, to Swords Bros., 7th St., Rockford, Ill., $16,782. Noted April 13.

**Wis., Milwaukee**—Excavating and foundation for Riverside Pumping Station, incl. 30,000 cu.yd. excav. and 8,000 cu.yd. rein.-con. work, to Schoonmaker Constr. Co., 373 Bway., $162,456. Noted May 11.

**Ia., Albert City**—For 3 mi. distribution mains to P. N. Kruse, Spencer, $10,770; 50,000 gal. steel tank and 100 ft. tower to Chicago Bridge and Iron Wks., 37 West Van Buren St., Chicago, $4,600; pump to Motor Haulage Supply Co., Mason City, $1,025; well to Thorne Bros., 209 Goodridge Bldg., Des Moines, $1,525. Noted April 13.

**Ia., Gray**—For distribution system, 30,000 gal. steel tank on 80 ft. tower, pumping machinery and 8 in. well, to Ward & Weighton, 516 Davidson Bldg., Sioux City, $11,304. Noted May 4.

**Minn., St. Paul**—For 15,500 bbl. portland cement, to Speakes Co., Griggs and Fuller Sts., and St. Paul Builders Material Co., 605 Ryan Annex, $2.18 per bbl. f.o.b. cars; 747.5 ton 6-48 in. c.i. pipe, and 88.93 ton c.i. specials, to United States Cast Iron Pipe & Fdry. Co., 625 Plymouth Bldg., Minneapolis, $45.40 to $48.40, and $111.52 per ton respectively. Noted March 30.

**Kan., Parsons**—Filtration plant, to New York Continental Jewel Filtration Co., Flatiron Bldg., New York, $38,900; pumping engine, to Allis-Chalmers, 50 Church St., New York, $20,800; machinery installed, to Ray & Son, Baxter Springs, $79,900; concrete chimney to Weber Chimney Co., 322 South Michigan Ave., Chicago, $3,225; power house and filter building, to Owings Constr. Co., Atchison, $94,500.

**Okla., Weleetka**—Constructing 5 mi pipe line, low lift pump station, 500,000 gal. per day water purification plant and clear pumps, 1 mi. transmission line, overhauling electric distribution system and 25 pole white way, to Ladd Constr. Co., P. O. Box 6, Kansas City Mo., $72,005.

**S. D., DeSmet**—Waterworks system, incl. 23,550 lin.ft. 6-10 in. Class B c.i. pipe, 21,000 lb. c.i. specials, concrete or steel tower, 150,000 gal. capacity, pumphouse, concrete well, etc., also sewerage system, incl. 23,180 lin.ft. 8-15 in. pipe, to O. N. Gjellefald Constr. Co., Forest City, Ia., $95,500. Noted April 6.

# Sewers

### PROPOSED WORK

**N. Y., Glen Falls**—Voted $225,000 bonds for about 18 mi. sanitary and storm sewers. L. G. Boynton, clk.

**N. Y., Massena**—May 23, to vote on $65,000 bonds for storm sewers in Bridges Ave., Chestnut, Cherry and Allen Sts. G. W. Hawes, village pres.

**Va., Norfolk**—Plans sewers in Omohundro Ave. from Rhode Island Ave. to 39th St. and Deleware Ave. from Omohundro Ave. to Granby St. $25,190. D. A. Decker, city engr. of water and sewers.

**Va., Petersburg**—Sold $200,000 bonds and soon takes bids sewers in various streets. L. Brownlow, city mgr.

**Fla., Key West**—Plans sanitary and domestic sewerage system. $620,631. C. S. Williams, acting city clk.

**O., Cleveland**—Plans new sewage disposal plant. $240,000. F. A. Pease Eng. Co., Marshall Bldg., engrs.

**Wis., Madison**—Memorial Hospital Assn., making plans sewage disposal plant, new processes of sewage treatment to be considered. $25,000. W. G. Kirchoffer, Vroman Blk., engr.

**Okla., Purcell**—See "Streets and Roads."

**Okla., Stroud**—Plans election to vote on $100,000 bonds for sanitary main sewers and disposal plant. Benham Eng. Co., Firestone Bldg., Kansas City, Mo., engrs.

**Cal., Susanville**—Milwood Sanitary Dist., having plans prepared 20,000 ft. sewers and disposal plant. B. P. Lyons, Susanville, engr.

**N. B., Campbellton**—Plans 5,000 ft. of 9 in. sewer in Arran St., also 6, 10 and 16 in. water mains in same trench. $55,000.

### BIDS DESIRED

**N. Y., Hamburg**—July 1, sanitary sewerage system and disposal plant. $250,000. H. W. Fitzgerald, village pres.

**N. Y., Long Island City**—May 22, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., sewers in Kinsland Ave; storm water sewer in Borden Ave. etc. $25,000.

**N. Y., Wilson**—June 6, by Bd. Village Trustees, sewerage system and disposal works and waterworks system consisting of about 5½ mi. c.i. pipe, etc. Hopkins & Field, 349 Cutler Bldg., Rochester, engrs.; adv. this issue. Noted Oct. 27.

**N. J., Paterson**—May 31, by Passaic Valley Sewerage Comrs., 128 Market St., Newark, sewer connections in East 11th St., 6th and 1st Aves. J. R. Van Duyne, ch. engr.

**Pa., Phila.**—June 1, by F. H. Caven, dir. pub. wks. sewer in Johnston St. between 7th and 13th Sts., 5 in. diam., concrete. $150,000, Wood St. between 19th and 20th Sts., 5 ft. 6 in. diam., concrete, $25,000. 21 branch sewers in various streets, brick, $150,000, c.i. pipe, inlets, manholes, curbing, etc. $50,000. J. A. Vogelson City Hall, engr.

**D. C., Wash.**—June 7, by Washington Suburban Sanitary Comn., Evans Bldg., New York Ave., laying sewers and water mains, Contrs. 15-S, 16-S, 28-W and 30-W. R. B. Morse, Hyattsville, Md., ch. engr. of dist.; adv. this issue.

**N. C., Lexington**—June 6, by J. A. Leonard, mayor, and Bd. Comrs., 12 mi. sewer laterals and outfall. G. C. White Co., Durham, engrs.; adv. this issue. Noted Jan. 5.

**O., Barnesville**—May 26, for sewage disposal plant, Contr. 1 and sewerage system, Contr. 2, Althar & Sykes, Bradfield Bldg., engrs.; adv. this issue. Noted Jan. 5.

**Mich., Ann Arbor**—May 31, by Bd. Pub. Wks., through I. G. Reynolds, city clk., Golden-Woodlawn-Packard-Wells and Forest Ave. storm sewer, also sanitary sewers in Washington Heights and Shadford Rd.

**O., Euclid**—June 5, sewers in Evergreen Dr., Perry St., Tyronne and Erieview Rds., Euclid, Tracy, Roseland, Fuller, Arbor, Naumann, Blackstone, Republic, Nicholas, Oriole, Shore View, Goller, Monterey and Pond Aves. $200,000. F. A. Pease Eng. Co., Marshall Bldg., Cleveland, engrs. Noted March 23.

**Ia., Mt. Pleasant**—May 24, by W. D. Worthington, clk., 23,000 ft. sewers. M. G. Hall Co., Centerville, engrs.

**Minn., Westbrook**—June 6, 14,000 lin.ft. 8 in., 750 lin.ft. 10 in. and 600 lin.ft. 12 in. vitr. sewers, 1 Imhoff tank and sludge bed, etc. $30,000. W. E. Buell & Co., 205 Davidson Bldg., Sioux City, Ia., engrs.

**Tex., Center**—May 23, by City Council, excavating and laying 12,730 ft. 6-12 in. vitr. clay sewers in various streets, backfilling, also concrete septic tank. $35,000-$40,000. E. E. Sands, Mason Bldg., Houston, engr.

**Ont., St. Catherines**—May 25, by W. P. Near, city engr., 9,200 lin.ft. tile sewers 10-36 in. diam. $25,000.

### BIDS RECEIVED

**N. Y., Mamaroneck**—Bd. Sewer Comrs., Weaver St. School House, opened bids May 1, sewerage system, Contr. 3, from J. H. Ferguson Co., Dorchester, Mass., $50,222; Amer. Utilities Co., Newark, N. J., $59,640; Pioneer Contg. Co., 4 North Ave., New Rochelle, $66,534. Noted April 20.

**N. J., Paterson**—Passaic Valley Sewerage Comrs., 128 Market St., Newark, opened bids May 9, sewer connections in West

**Sewers (Continued)**

Bank, Franklin, Keen and East 5th Sts., here, from Arnolt-More, Inc., 45 Clinton St., Newark, $26,000; M. Averill, 196 Woodside Ave., Newark, $29,900; Culp Co. Inc., 412 East 37th St. $31,150. Noted April 27.

**O., Cleveland**—Sewers in Lake Shore Blvd. from Nottingham Rd. to East 185th St., from N. Iafornaro, 3218 Murray Hill Rd. $29,943, A. Marra, Ulmer Bldg., $30,598; East 82nd St. from Wade Park to Decker Aves., from S. Amato, 343 The Arcade, $40,600, P. W. Graham Co., 1274 West 108th St., $45,000. Work involves 5,630 ft. 12-24 in. vitr. and 720 ft. 11 x 12 ft. 6 in. concrete pipe.

**Mich., Detroit**—Opened bids for Lateral Sewers, (1) 3618, (2) 3624, (3) 3625, (4) 3639, (5) 3640, (6) 3641, (7) 3622, from G. Ponterelli, Wolverine Hotel, (1) $17,280, (2) $14,947, (3) $14,813, (6) $21,271; Western Constr. Co., 1208 Ford Bldg., (1) $18,760, (6) $22,790; Hammen & Co., Mankato, Minn., (1) $17,900, (2) $10,950, (3) $9,471, (4) $15,300, (5) $14,980, (6) $21,653, (7) $3,471; Oakwood Constr. Co., 165 Fort Blvd., (2) $11,350, (3) $10,000, (7) $3,865; J. Zuccola, St. Joseph St., (4) $15,146; A. Arcari, Detroit, (4) $14,301; Judd Co., 2287 12th St., (5) $15,070; B. D. Baker, 1415 Penobscot Bldg., (5) $14,970; Liberty Constr. Co., 917 Detroit Savings Bank Bldg., (7) $3,790. Noted May 4.

### CONTRACTS AWARDED

**N. Y., Syracuse**—Bd. Contract & Supply, completing 17th Ward sewerage system, to S. Palmisana, 305 Fulton St., $25,815.

**D. C., Wash.**—Dist. Comrs., 509 Dist. Bldg., to W. F. Brenizer Co., 101 New York Ave., extension of Broad Branch trunk sewer, $31,000, Newark St. cabinet system extension, $3,900, Connecticut Ave. service sewer extension, $1,800; to McCandlish, 1215 Harvard St., N. W., O St. replacement sewer, $1,500.

**Fla., West Palm Beach** — Constructing Sanitary Sewer Dist. 3 to Hanberry Constr. Co., Miami, $30,646; Sanitary Sewer Dist. 4, to I. C. Mishler, West Palm Beach, $18,692.

**Mich., Detroit**—C. W. Hubbell, engr., 2348 Penobscot Bldg., 15,245 ft. 8 in. vtr. crock sewer in Dix Ave., to Hammen & Co., Mankato, Minn., for Dix-Ferndale Land Co. $25,000. Noted April 13.

**Ia., Ames**—Outfall sewers to Sorenson Drainage Co., Slayton, Minn., $9,000; sewage treatment plant to Nelson & Aldrich, Spencer, $48,742. Noted March 16.

**Minn., Aitkin**—Comrs. Aitken Co., 41 mi. drainage system, Hill City Dist., near here, to W. H. Small & Son, Aitkin, $84,073.

**Minn., Deer River**—Sewerage system, 16,400 lin.ft. 8-15 in. vitr. tile sewers, 39 manholes, one disposal pump pit and house, mechanical and electrical equipment for pumping station, to Pastoret Constr. Co., 308 Sellwood Bldg., Duluth, $28,000. Noted April 13.

**Kan., Almena**—Complete sewerage system, incl. 20,689 ft. 8-12 in. vitr. sewer pipe, 41 manholes, 14 flush-tanks, 3,172 ft. ¾-12 in. galvanized iron pipe, 3,100 ft. 10-30 in. double strength pipe or segmental blocks, to Burt & Tripp, Hutchison, $38,294.

**S. D., DeSmet**—See "Waterworks."

**S. D., Timber Lake**—Sanitary sewerage system, to W. B. Carter, 606 United Bank Bldg., Sioux City, Ia., $25,887.

**N. S., Sydney**—Will build sewer by day labor. $25,000. R. M. McKinnon, city engr.

## Waste Disposal

### PROPOSED WORK

**N. C., Asheville**—Soon takes bids constructing incinerator. $40,000. B. M. Lee, city engr.

## Bridges

### PROPOSED WORK

**N. Y., Johnson City**—Plans modern concrete bridge across Susquehanna River, near Bible Park School. To exceed $35,000.

**Missouri**—State Hy Dept., Jefferson City, plans three 40 ft. rein.-con. arch spans, four 16 ft. and one 20 ft. rein.-con. slab spans, two 24 ft. rein.-con. deck girder spans, on Federal Aid Project 107, Sect. A, Iron Co. A. Graham, state highway engr.

**Wis., Milwaukee**—Completing plans and soon takes bids one new concrete abutment to bridge on Racine St. $20,000-$25,000. M. C. Cutler, c/o Bridges and Buildings Dept., engr.

**Wis., New London**—Completing plans and soon takes bids 200 ft. steel girder bridge on Shawano Rd., 20 ft. roadway. H. R. Albert, Courthouse, Green Bay, engr.

**Tex., Beaumont**—Jefferson Co. plans bridge over Neches River connecting Orange and Jefferson Counties. $200,000. Orange Co. will appropriate toward cost. A. C. Love, Court House, Beaumont, engr.

**Tex., San Angelo**—City and Tom Green Co. completing plans and takes bids about June 1, 500 ft., rein.-con. bridge, 40 ft. wide, over North Concho River on Beauregard Ave. $75,000. G. Gilchrist, co. engr. Noted March 2.

### BIDS DESIRED

**Conn., New Haven**—June 14, at office Director of Pub. Wks., Room 16, City Hall, Tomlinson Bridge over Quinnipiac River, on Forbes Ave. E. S. Nettleson, city engr.; adv. this issue.

**N. J., Woodstown**—June 12, by Bridge Com. of Bd. Freeholders Salem Co. (Salem) removing present bridge and building new bridge over Salem Creek, on Mill St., here. H. B. Keasbey, Mecum Bldg., Salem, co. engr., adv. this issue.

**Pa., Phila.**—June 1, by F. H. Caven, dir. pub. wks., 212 ft. concrete and steel bridge on South St. $150,000. S. Noyes, City Hall, engr. Noted May 4.

**West Virginia**—See "Streets and Roads."

**Missouri**—May 26, by State Hy. Dept. at div. office Ironton, three 40 ft. rein.-con. arches, four 16 ft. and one 20 ft. rein.-con. slabs, and one 24 ft. rein.-con. deck girder, on Federal Aid Project 107, Sect. A, Iron Co. A. Graham, Jefferson City, engr.

**Ga., Washington** — May 23, by Comrs. Wilkes Co., 276 ft. concrete bridge, incl. 69,740 lb. reinforcing, 328 lin ft. 14 x 14 in. concrete piles, 276 sq.yd. concrete surfacing, etc. W. Greenslade, Court House, Augusta, engr. State Highway Dept. to furnish cement f.o.b. cars, nearest railroad station.

**Ia., Bloomfield**—May 25, by Auditor Davis Co., bridge and culvert work on Primary Bridge Project 116. H. E. Hansel, co. engr.

**Ia., Corning**—June 14, by Auditor Adams Co., 52 box and circular culverts and extensions, one I-beam and 2 pony trusses. P. V. Saum, co. engr.

**Ia., Montezuma**—May 24, by Auditor Poweshiek Co., 50 box culverts and 1 I-beam. C. E. Olsen, co. engr.

**S. D., Sturgis**—July 5, by J. G. Wilson, aud. Meade Co., one 80 ft. steel span across Sulphur Creek and one 250 ft. steel span across Elk Creek, at Wilson crossing. $25,000.

### BIDS RECEIVED

**Mass., Athol**—Comrs. Worcester Co., opened bids May 5, constructing granite faced rein.-con. arch, one 107 ft. clear span, cyclopeon concrete foundation, (a) split faced granite, (b) seam faced granite, from T. F. McGovern, 95 Main St., Southbridge, (a) $61,400, (b) $58,400; G. M. Bryne, Winchester, (a) $67,092; Frissell Eng. Co., Gardner, (a) $71,295; F. B. Saunders, Framingham, (b) $65,521; L. H. Shattuck, Inc., Manchester, N. H., (b) $70,850.

### CONTRACTS AWARDED

**Pa., Clarks Ferry** (Duncannon P. O.)—H. W. Gough, controller Dauphin Co. Court House, Harrisburg, five 130 ft. span arch bridge over Juniata River, here, to Whittaker & Diehl, Union Trust Bldg., Harrisburg, $159,829.

**Pa., Inglenook**—Pennsylvania R.R., Broad St. Sta., Phila., 380 ft. concrete and steel double span bridge, here, to J. McGraw Co., Commercial Trust Bldg., Phila., $200,000.

**Pa., Knopp** (McKees Rocks P. O.)—Pennsylvania R.R., Broad St. Sta. Phila., 350 ft. steel span bridge, 26 ft., here, to A. L. Anderson, Altoona Trust Bldg., Altoona, $200,000.

**North Carolina**—State Hy. Dept., Raleigh, constructing rein.-con. bridge over Haw River, Alamance Co., to Atlantic Bridge Co., Roanoke, Va., $54,046; rein.-con. bridges and culverts on State Projects 629 and 647, Catawba and Lincoln Counties, to R. M. Thurmond & Co., Lynchburg, Va., $41,523. Noted May 11.

**South Carolina**—State Hy. Comn., at office Abbeville Co. Highway Comn., Abbeville, constructing bridges on Abbeville-Antreville and Abbeville-Greenwood Rds., to Palmetto Concrete & Constr. Co., Columbia, $33,575. Noted April 13.

**Louisiana**—State Hy. Dept., New Orleans, bridge work on Melville-Alexandria Highway, St. Landry Parish, to Blodgett Constr. Co., Shreveport, $6,535; Thompson Creek Bridge, East and West Feliciana Parish, to Tallent & Hannaford, Evansville, Ind., $75,587; bridge over False River, Point Colpee Parish, to W. S. Bonner, New Orleans, $66,859. Noted April 13.

**Ia., Davenport**—Scott Co. 80 box culverts, 2 slab, 1 concrete arch and 1 through truss bridges, to Gould Constr. Co., Davenport, $26,870; L. Plumb, Wapello, $11,887; S. R. Johnston, Tipton, $10,395; Federal Bridge Co., 1002 Bankers Trust Bldg., Des Moines, $7,455; Plummer & Wells, Casey, $11,640.

**Ia., Elkader**—Clayton Co., 20 box culverts and extensions to J. Vogt, Guttenberg, $4,654; concrete figures $18.15 per cu.yd.; 12 box culverts to C. H. Williamson, Elkader, $5,340, concrete figures $19.15 per cu.yd.; 11 box culverts and extensions, 1 deck girder, and 1 high truss, to A. Olson Constr. Co., Waterloo, $27,792, concrete figures $18.60 per cu.yd. in culverts and deck girder, $25.50 per cu.yd. in high truss; 37 box culverts and extensions and 1 pony truss, to Rodie & Bales, Strawberry Point, concrete figure $19.52 per cu.yd. in culverts, $21.20 per cu.yd. in truss.

**Ia., Montezuma**—Poweshiek Co. 25 box culverts, five I Beams, and 1 pony truss to Iowa Bridge Co., Hubbell Bldg., Des Moines, $35,996. Noted April 20.

**Tex., Pecos**—Reeves Co. bridges and culverts on 31.25 mi. State Highway 1, to Womach Constr. Co., Midland, $33,153. Noted May 11.

**Tex., San Antonio**—For new girders, replacing cross beams and laying double floor on 1,800 ft. viaduct, 16 ft. wide, on New Braunfels Ave., to Elder Constr. Co., Moore Bldg., San Antonio, $30,000. Noted April 20.

**Tex., San Antonio**—For 97½ ft. rein.-con. and steel bridge over San Antonio River on Navarre St., Contr. 1, incl. rein.-con. walls, substructure and concrete deck, to Elder Constr. Co., Moore Bldg., $10,185. Contr. 2 structural steel furnished and placed, to Virginia Bridge & Iron Co., Exch. Bldg., Memphis, Tenn., $20,990; 135 ft. rein.-con. arch bridge over San Antonio River on Garden St., known as Mill Bridge, to Elder Constr. Co., Moore Bldg., $28,500. Noted April 27.

**Oklahoma**—State Hy. Dept., Oklahoma City, constructing Newcastle Bridge over Canadian River, Federal Aid Project 1, to have ten 225 ft. steel spans, to Missouri Valley Bridge & Iron Co., Pennsylvania Ave., Leavenworth, Kan., $276,000.

## Dams

### PROPOSED WORK

**Pa., Shamokin**—Roaring Creek Water Co., Shamokin, plans new dam, 332,000,000 gal. capacity.

**Wis., Park Falls**—Flambeau Paper Co. making plans rein.-con. and steel dam and equipment on Flambeau River. T. W. Orbison, 812 College Ave., Appleton, engr.

### CONTRACTS AWARDED

**Tex., Marlin**—Earthen Dam and concrete spillway, 14,000 sq.yd. concrete pavement around spillway, 94,000 cu.yd. earthwork, 71,000 lb. reinforcing, to Hess & Skinner, Southwestern Life Bldg., Dallas, $58,868.

## Railways

### PROPOSED WORK

**Texas**—Freeport Sulphur Co., Freeport, making surveys 13 mi. standard gage railroad between point 109 mi. south of Clute Sta. and Hoskins Mound, to take care of sulphur deposits at Hoskins Mound, which are owned by Texas Co. $300,000. L. Mims, c/o owner, ch. engr.

**Quebec**—Montreal Tramways Co., 78 Craig St. W., Montreal, plans 3,000 ft. double track on Wellington St. between McGill St. and Canal Bridge. $200,000. R. B. Graves, ch. engr.

### CONTRACTS AWARDED

**Connecticut**—The Connecticut Co., 90 Main St., Derby, New Haven, will replace street railway tracks on Main St., Middletown, in connection with city's new paving program. Work will be done by day labor. $33,000.

## Excavation and Dredging

### PROPOSED WORK

**Pa., Meadville**—State plans improving French Creek Channel, to make French Creek flood proof. $75,000. Address B. A. Knight, state engr., c/o Water Supply Comn., Meadville.

### BIDS DESIRED

**Ind., Boonville**—June 8, by G. Clarage, supt. constr. Warrick Co., George J. Roth, Edward Gough et. al. Drain, known as Cypress Dredge Ditch; adv. this issue.

Excavation and Dredging (Continued)

**Wis., Ladysmith**—May 27, by Rusk Co. Drainage Bd., building Farm Drain 1, main ditch involves 23,319 cu.yd. excav.; tile branch 7,100 ft. 8-12 in. tile. M. Edgar, secy.

**Minn., Bemidji**—June 1, by A. D. Johnson, aud. Beltrami Co., Judicial Ditch 45, 7 mi. open work, involving 300,000 cu.yd. excav. $35,000. Noted Feb. 9.

**Ark., Eudora**—June 15, (change of date), by Eudora Western D. D., excavation and channel clearing. Baxter Eng. Co., Little Rock, engrs.; adv. this isuse. Noted April 6.

**Cal., Grenada**—May 24, by Dirs. Grenada Irrigation Dist., constructing system, incl. 9½ mi. drainage ditches, 92,380 cu.yd. excav., 2 irrigation ditches, 1,450 cu.yd. excav., 8 corrugated iron pipe culverts with concrete headwalls, 2 timber brdges, etc. F. H. Tibbetts, Alaska Commercial Bldg., San Francisco, engr.

### CONTRACTS AWARDED

**Minn., Windom**—Cottonwood Co., Ditch 30, excav. and tile, to T. Jensen, Tracy, $28,962.

**Ontario**—Hydro Electric Power Comn. of Ontario, 190 University Ave., Toronto, intake and ship channel in Niagara River, near Chippawa, to Macaw, Tomlinson & MacDonald, Winnipeg, Man. $500,000. Noted March 9.

## Streets and Roads

### PROPOSED WORK

**Mass., New Bedford**—Dept. Pub. Wks. plans paving Belleville Rd., Cannon, Ethel, Front, Glennon, Kempton, King, Prospect, Reed, Shaw, Topham and Whitman Sts., probably asphalt. $100,000. W. H. B. Remington, city engr.

**N. Y., Black River**—Plans paving Main St., concrete or bitulithic. $25,000. H. M. Kellar, village pres

**N. Y., Massena**—May 23, to vote on $62,500 bonds to pave Bridges Ave., Water and North Main Sts. G. W. Hawes, village pres. Noted April 20.

**N. Y., St. George**—M. J. Cahill, pres. Richmond Boro, Boro Hall, rejected bids opened May 3, repaving within franchise area of Richmond Light and Railroad Co. on Richmond Terrace from Van to Bodine Sts. also from Davis to Campbell Aves. Work will be readvertised. Noted May 11.

**N. Y., Warsaw**—Plans paving North Maple and Park Sts. $25,000. C. H. Haine, village clk.

**N. J., Trenton**—Bd. Freeholders Mercer Co. plans reconstructing ¼ mi. section White Horse-Bordentown Rd., concrete. $40,000. H. F. Harris, Court House, engr.

**Va., Norfolk**—Appropriated $40,254 for widening and paving College Pl.; $24,900 street improvement in West Ghent section; $4,750 concrete paving Langley Rd. from Westover Ave. to Ambler St. W. E. Rew, city engr.

**North Carolina**—State Hy. Dept., Raleigh, rejected bids opened April 25, grading and surfacing 4.43 mi. State Project 187, Pitt Co. Will readvertise. C. M. Upham, state highway engr. Noted May 11.

**N. C., Charlotte**—Comrs. Mecklenburg Co. authorized sale of $1,400,000 bonds; $1,000,000 of which will be used for roads. R. E. Young, clk.

**N. C., Lenoir**—Plans paving various streets and sidewalks. $300,000. V. D. Guire, mayor.

**Georgia**—State Hy. Dept., Atlanta, plans sand clay surfacing 9.804 mi. Federal Aid Project 267, Sewart and Chattahoschee Counties, $71,336; topsoiling 3.61 mi. Federal Aid Project 266, Dawson Co., $12,994, 6.1 mi. Federal Aid Project 258, Henry Co., $64,256.

**Ky., Lexington**—Plans paving 3,122 ft. North Hanover St. 25,000. W. H. McCorkle, comr.

**Ohio**—Dept. Highways and Pub. Wks., Columbus, cancelled bids which were to be opened May 9, grading, bridging and paving 0.516 mi. Sect. "Anna" Sidney-Wapakoneta Rd., rein.-con., $28,865; 0.319 mi. Sect. "Anna" Sidney-Wapakoneta Rd., tar treated surface, $4,878; 0.507 mi. Sect. "Botkins" Sidney-Wapakoneta Rd., rein.-con., $24,788; 0.391 mi. Sect. "Botkins" Sidney-Wapakoneta Rd., tar treated surface, $5,722. All in Shelby Co. Noted April 27.

**Ohio**—Dept. Highways and Pub. Wks., Columbus, rejected bids opened May 5, grading, bridging and paving 2.057 mi. Sect. "G-3" Marion-Marysville Rd., Marion Co. Noted May 11.

**O., Columbus**—Plans grading, curbing, laying water mains and paving 2,568 ft. Goodale St. from High to Henry Sts., asphalt. $42,730. R. H. Simpson, City Hall, engr.

**O., Sabina**—Making plans grading, curbing and paving ¾ mi. Worthington St., brick or asphalt. $35,000. Jennings-Lawrence Co., Hartman Bldg., Columbus, engrs.

**Indiana**—Plans grading and paving 1.333 mi. Lincoln Highway, Lake Co., 281,480 sq.yd. bituminous concrete on concrete. $100,000. L. E. Lyons, dir. state hy. comn.

**Ind., Brownstown**—Jackson Co. plans paving Mitchell Rd., 28,950 sq.yd. concrete on concrete. $75,000.

**Michigan**—State Hy. Dept., Lansing, rejected bids May 4, grading and surfacing 11.17 mi. State Trunk Line Rd. 15-16, Marquette Co. Will readvertise. Noted April 27.

**Michigan**—State Hy. Dept., Lansing, soon takes bids grading and surfacing 2½ mi. State Trunk Line Rd. 13-16, Kent Co., asphalt, concrete or bituminous concrete. L. H. Belknap, ch. engr.

**Mich., Detroit**—Having plans prepared paving with 3 and 3½ in. sheet asphalt, 6 or 8 in. concrete base, with (1) stone curb, (2) concrete curbs, Six Mile Rd. from Hamilton Ave. to Highland Park, (1) $24,020, (2) $23,310, and from Highland Park to Livernois Ave., (1) $87,870, (2) $81,600; Waverly Ave. from 12th St. to Lots 52 and 100, (1) $8,790, (2) $8,075; Glynn Court from Linwood to Dexter Aves., (1) $28,160, (2) $25,990; Monterey Ave. from Linwood to Dexter Aves., (1) $30,040, (2) $27,610, and from 12th to Linwood Aves., (1) $29,210, (2) $26,840; LeMay Ave. from Warren to Shoemaker Sts., (1) $16,800, (2) $15,440; Rogers St. from Junction to Cavalry Sts., (1) $12,460, (2) $11,480; Highland Ave. from LaSalle to Linwood Aves., (1) $11,020, (2) $10,150; Leslie Ave. from Pere Marquette R.R. to Linwood Ave., (1) $13,570, (2) $12,500; Cortland Ave. from LaSalle to Linwood Aves., (1) $11,670, (2) $10,750; Sturtevant Ave. from Pere Marquette R.R. to Linwood Ave., (1) $14,670, (2) $13,510; Thompson Court from Forest to Hancock Aves., (1) $3,800, (2) $3,515; McGregor Ave. from alley east of Junction Ave. to easterly terminus, (1) $4,760, (2) $4,400; also paving 7 alleys with one course concrete, totaling $18,530. J. W. Reid, city engr.

**Ill., Oregon**—Making plans paving 6 blocks, Jefferson St. from 3rd to 5th St. and 5th to Franklin, brick on concrete. $40,000. Marr-Greene & Co., 400 Michigan Ave., Chicago, engrs.

**Wis., Medford**—Having plans prepared paving 1 mi. streets, 20,000 sq.yds. vitr. brick or one course rein.-con., concrete curbing and guttering. $30,000. H. Maurer, clk., S. P. Hall, Ingram Blk., Eau Claire, engr.

**Ia., Burlington**—Making plans grading and paving Leebrick St. between Spray and Oakdale Sts., one course concrete, 16 ft.; Spray St. between Leebrick and Starr Ave., and Starr Ave. between Spray and West Ave., concrete, 27 ft. H. A. Vollmer, city engr.

**Ia., Manchester**—Making plans paving 26,364 sq.yd. various streets. N. B. Barber, Waterloo, engr.

**Ia., Nora Springs**—Soon receives bids 4 mi. grading, relocation and hard surfacing, 18 ft. Tschirgi Eng. Co., Amer. Trust Bldg., Cedar Rapids, engrs.

**Ia., Oelwein**—Making plans paving 12-15 blocks. E. B. Tourtellot, city engr.

**Ia., Ottumwa**—Making plans paving 22 blocks, rein.-con. and fibre brick, 24 ft. $75,000. M. A. Sheehan, city engr.

**Ia., Waukon**—Allamakee Co. plans grading 18 mi. Waukon-Postville Rd. and 18 mi. Waukon-Lansing Rd. $70,000. H. Orr, Waukon, engr.

**Ia., Wesley**—Making plans paving 8 blocks Main St. $30,000. I. A. Gerdes, clk.

**Ia., West Union**—Making plans paving 40 blocks. $140,000. H. R. Green, 634 Cedar Rapids Savings Bank Bldg., Cedar Rapids, engr.

**Minn., Fairmont**—Plans paving 14 blocks. $50,000. A. F. Fuller, clk.

**Minn., Fergus Falls**—Plans paving 7 blocks Lincoln Ave. $28,000. H. Blegan, city engr.

**Minn., Olivia**—Renville Co. plans grading and improving 40 mi. roadway. $60,000. J. M. Callahan, Olivia, engr.

**Kan., Ft. Scott**—Bourbon Co. had plans prepared and soon receives bids grading, paving and bridging 0.559 mi. Federal Aid Project 117, Sect. B. 5,485 sq.yd. bituminous macadam. B. Boyle, Ft. Scott, engr.

**Kan., Ft. Scott**—Plans paving 1st St. from Andrick to Scott Sts., Little St. from 3rd to 6th Sts. and Andrick from 1st to 4th Sts., vertical fiber brick, asphalt filler, Alley Block 126, 18 ft., 6 in. concrete. O. R. Welch, Ft. Scott, engr.

**Kan., Fredonia**—Wilson Co. had plans prepared grading and surfacing 1.306 mi. Federal Aid Project 95, incl., 7,770 cu.yd. earth excav., 4,018 cu.yd. gravel for feather-edge gravel road, 119 cu.yd. concrete in culverts, 640 lin.ft. rein.-con. pipe. C. P. Donald, Fredonia, engr.

**Kan., Larned**—Pawnee Co. approved plans grading and sand clay surfacing 10½ mi. Federal Aid Project 123, incl. [illegible],000 cu. yd. excav., 714 cu.yd. concrete, 2,940 ft. wood piling. V. Stuart, co. engr.

**Nebraska**—State Hy. Comn., Lincoln, plans grading 5.98 mi. road from Ravena to Sweetwater, Project 181, Sherman and Buffalo Counties, 11.626 mi. from Elwood to Stockville, Project 184, Gosper Co.; grading and surfacing 16.325 mi. from Sidney to Dalton, Project 130 B, Cheyenne Co.; concrete surfacing 1,543 sq.yd. road from Greenwood to Chalco, Project 107 C, Sarpy Co.; grading, concrete, brick or bituminous asphalt paving, and curbing 5.99 mi. Lincoln Highway, Project 20, Douglas Co. G. E. Johnston, secy. Dept. Pub. Wks.

**S. D., Sioux Falls**—Plans paving 17 blocks 26th St. from Cliff to Summit Aves. $38,000.

**N. D., Minot**—Plans grading, gravel surfacing, concrete curbing and guttering and storm drains, 2 mi. Valley St. between 4th Ave. and city limits. $36,000. A. D. Hagenstein, clk.

**Missouri**—State Hy. Dept., Jefferson City, soon takes bids for hard surfacing 16 mi., graveling 5 mi. and macadamizing 11 mi. various roads, Federal Aid Project 144, Callaway Co. Former bids rejected. Noted April 20.

**Missouri**—State Hy. Dept., Jefferson City, plans 11.26 mi road from Ironton to Potosi, Federal Aid Project 107, Sect. A. Iron Co,. 30,717 cu.yd. earth and 1,673 cu. yd. rock excav., 27,549 cu.yd. borrow, 536.7 cu.yd. concrete masonry, etc.; 3.864 mi. road from St. Louis to Springfield, State Aid Project 20,166, Webster Co., 17,669 cu. yd. earth excav., 71.8 cu.yd. concrete masonry, etc.; 3.358 mi. road from Cassville to Wheaton, State Aid Project 20.134, Barry Co., 15,997 cu.yd. earth excav., 7,456 cu.yd. borrow, 246.9 cu.yd. concrete masonry, etc.; 2.009 mi. road from Kirksville eastward and westward, State Aid Project 20.161, Adair Co., 16,368 cu.yd. earth excav., 100.1 cu.yd. concrete masonry, etc.; 2.311 mi. road from St. Clair Co. line to Humansville, State Aid Project 20.157, Polk Co., 12,562 cu.yd. earth excav., 114.7 cu.yd. concrete masonry, etc.; 3.829 mi. road from Owendale to Center, Noonan and Perry, State Aid Project 20,168, Ralls Co., 20,222 lin.ft. grading, 18,773 sq.yd. broken stone base course and water bound macadam surface, 12,883 sq.yd. gravel, etc.; 1.219 mi. road eastward and westward through Lewis Co., State Aid Project 20.163, Lewis Co., 9,100 cu.yd. earth excav., 74.2 cu.yd. concrete masonry, etc. A. Graham, state highway engr.

**Mo., Cape Girardeau**—Making plans improving western part of town. $300,000. C. E. Smith & Co., c/o C. E. Stiever, mgr., Cape Girardeau, engrs.

**Mo., St. Charles**—Plans paving various streets, concrete and brick. $38,000. P. Loonam, St. Charles, engr.

**Tex., Beaumont**—Jefferson Co. sold $2,000,000 bonds surfacing 90 mi. road, gravel or shell and paving 45 mi. road, concrete or asphalt. Above bonds will also help defray expenses of bridge across Neches River. See "Bridges."

**Tex., Bonham**—Fannin Co. preliminary inspection made grading and concrete paving 6 mi. State Highway 5 east and west through Honey Grove, 16 ft. $150,000. A. J. Goode, co. engr.

**Tex., Coleman**—Coleman Co. making plans grading and gravel surfacing 10.57 mi. State Highway 7-A, incl. 42.7 acres clearing, 67,000 cu.yd. earth and 3,200 cu.yd. solid rock excav., 1,638 cu.yd. concrete, 22,148 cu.yd. gravel surfacing, $86,529; 17.72 mi. State Highway 7, 89,960 cu.yd. borrow, 2,993 cu.yd. concrete, 83,270 lb. structural and 300,894 lb. reinforcing steel, 38,880 cu.yd. gravel, $230,000. W. E. Dickerson, co. engr.

**Tex., Ft. Worth**—Tarrant Co. making plans grading and gravel surfacing 7.51 mi. State Highway 10, the Granbury Rd., from Benbrook to Tarrant Co., incl., 10,000 cu.yd. borrow, 60,000 cu.yd. earth and 15,000 cu. yd. rock excav., 820 cu.yd. concrete, 47,000 lb. reinforcing, 23,000 cu.yd. gravel surfacing. $78,800. R. V. Glenn, Courthouse, consult. engr.

**Okla., Ada**—Takes bids in June concrete paving South Townsend Ave. $40,000. H. S. Darlington, city engr.

**Okla., Duncan**—Soon takes bids paving various streets in residential section. $96,000. Benham Eng. Co., Firestone Bldg., Kansas City, Mo., engrs. Noted Feb. 9.

**Okla., Purcell**—Election soon to vote on $250,000 bonds paving various streets, and

Streets and Roads (Continued)

extending waterworks and sewerage systems. Benham Eng. Co., Firestone Bldg., Kansas City, Mo., engrs.

**Colorado**—State Hy. Dept., Denver, plans gravel surfacing 4 mi. Federal Aid Project 208, Mesa Co., $49,999; 13 mi. Federal Aid Project 210, Mesa and Garfield Counties, $189,295.

**Col., Brush**—Making plans and takes bids about July 5, paving 7 block Paving Dist. 2, 40-60 ft., bitulithic, incl. storm sewers. $65,000. G. A. Izett, Englewood, engr.

**Colo., Golden**—Having plans prepared paving 11 blocks, concrete. $30,000. G. A. Izett, Englewood, engr.

**Utah**—State Hy. Dept., Salt Lake City, plans grading gravel or shale surfacing 7.6 mi. road between Morgan and Peterson, Morgan Co., $60,811; paving 2.95 mi. road north from Richfield to present paving, Richfield Co., concrete base, 2 in. topping or plain 6-8 in. concrete, $94,595. H. M. Meeks, state highway engr.

**Wash., Seattle**—King Co. soon takes bids paving 4.37 mi. Valley Rd. from Orillia to Kent, 1 course concrete; also 40-ft. concrete bridge. $115,000. T. R. Beeman, 7807 Woodland Park, engr.

**Cal., Fresno**—Had plans prepared improving Home Ave. between Lucerne and Lane Sts., 66,920 sq.ft. grading, 51,810 sq. ft. pavement, 5,576 sq.ft. gutter, 3,057 ft. curb, 11,488 sq.ft. sidewalks, etc. W. Stranahan, city engr.

**Cal., Modesto**—Having plans prepared improving Sycamore Ave. between Needham and Stoddard Sts., 58,134 sq.ft. grading, 54,461 sq.ft. 1½ in. warrenite bitulithic on 2½ in asphaltic concrete, 3,672 sq.ft. concrete gutters, 2,302 lin.ft. concrete curb, etc., $16,083; Sycamore Ave. between Stoddard St. and Lateral 4 of Modesto Irrigation Dist., 38,972 sq.ft. grading, 36,082 sq. ft. 1½ warrenite bitulithic on 2½ in. asphaltic concrete, 2,890 ft. gutter, 1,920 lin. ft. curb, etc., $12,307; 5th St. between F and H Sts., 42,282 sq.ft. grading, 45,620 sq. ft. warrenite bitulithic on 2½ asphaltic concrete, 2,661 sq.ft. gutters, 1,767 lin.ft. curb, etc., $12,259. G. Freitas, city engr.

**Cal., Oroville**—Bd. Supervs. Butte Co. received no bids May 3, paving 2.99 mi. Riceton Rd. H. H. Hume, Oroville, engr. Noted April 27.

**Cal., Santa Cruz**—Had plans prepared improving Cliff Dr., Everett Circle, California, Younglove and Woodrow Wilson Aves., 341,611 sq.ft. grading, 192,649 sq.ft. 5 in. concrete pavement, 2,730 ft. detached concrete curbs, 4,047 ft. standard concrete sidewalk curb, 4,800 sq.ft. 4 in. concrete sidewalks, 4,526 ft. 10-18 in. drain pipe, etc. J. K. James, Santa Cruz, engr.

**N. B., Campbellton**—Voted $125,000 bonds for paving streets and sidewalks. J. T. Reid, town clk.

**Que., Montreal**—Plans paving 2,625 ft. Wellington St. from St. Patrick to Congregation Sts., 60 ft., $41,900; 9,000 ft. St. Denis St. from Carrieres Rd. to Isabeau St., 80 ft., $140,000; Cote Des Neiges Rd., $70,000, Laurier Ave., $32,000, both 50 ft.; all asphalt. E. Blanchard, road engr.

**Que., Sherbrooke**—Plans leveling and paving King St. from Montcalm Bridge to city limits. $75,000. T. Tremblay, city engr.

**Ont., Windsor**—Soon takes bids paving Wyandotte St., sheet asphalt on concrete. $136,000. Prices wanted on all materials. M. E. Brian, city engr.

### BIDS DESIRED

**Maine**—May 26, by State Hy. Dept., Augusta, building nine sections state highway, 4.66 mi. in New Gloucestor, 3.55 mi. New Gloucester and Auburn, and 2.48 mi. Farmingdale, all foregoing cement concrete surface; 1.81 mi. Lewiston, bituminous macadam; 2.49 mi. Livermore and Hartford, 2.25 mi. Old Town, 5.1 mi. Milford, 4.29 mi. Greenbush, and 3.11 mi. Mars Hill, gravel surface. P. D. Sargent, state highway engr. Noted Jan. 26.

**Connecticut**—May 26, by State Hy. Comn., Hartford, paving highways in City of New London, Towns of Westport, Suffield, Winsted, Cromwell, Kent, Stamford and Darien. C. J. Bennett, comr.; adv. this issue.

**Conn., Middletown**—Taking bids 2 mi. concrete base for new asphalt pavement on Main St., (asphalt surface awarded under another contract.) $65,000. J. W. Mylchreest, city engr.

**New York**—May 19, by H. S. Sisson, comr. State Hy. Dept., Albany, improving roads in Chautauqua, Cortland, Erie, Greene, Niagara Orleans, Steuben, Suffolk, Washington, Wayne and Westchester Counties; repairing roads in Albany, Monroe and Westchester Counties. J. C. Finch, secy.; adv. this issue.

**N. Y., Brooklyn**—May 25, by Park Bd. at office Dept. Parks, Municipal Bldg., New York, repairing roadway pavements on parkways and park roads, for year 1922, sheet asphalt and concrete. F. D. Gallatin, pres.

**N. Y., Brooklyn**—May 24, by E. Riegelmann, boro pres., Boro Hall, repaving De Kalb Ave. from Nostrand Ave. to Bway. and Hopkinson Ave. from Livonia to Riverdale Aves., asphalt; Graham Ave. from Richardson St. to Bway., new grade 1 granite blocks; resurfacing East 14th St. from Gravesend Neck to Sheepshead Bay Rds., bituminous macadam; cement sidewalks on north side of Jamaica Ave. from Forcetube Ave. to point about 590 ft. easterly.

**N. Y., Johnson City**—May 23, paving Grand Ave., brick. $28,000. H. Brown, village pres.

**N. Y., New York**—May 25, by J. Miller, pres. Manhattan Boro, Municipal Bldg., repaving 37th St. from 3rd to Lexington Aves., West Houston St. (curb to rail) from Hudson to Washington Sts., 2nd Ave. (curb to rail) from 98th to 106th Sts., all foregoing granite block on concrete; East 68th St. from 3rd to Park Aves., sheet asphalt on concrete.

**N. Y., Scotia**—June 5, by Village Bd. Trustees, concrete curbing and paving 1st St. W. W. Chadsey, 434 State St., Schenectady, village engr.; adv. this issue.

**N. Y., Seneca Falls**—June 1, by Bd. Village Trustees, improving various streets. W. S. Lozier, 321 Cutler Bldg., Rochester, consult. engr.; adv. this issue.

**N. J., Belvidere**—June 7, by Bd. Freeholders Warren Co., constructing Hope-Blairstown Rd., rein.-con. H. W. Vetter, co. engr.; adv. this issue.

**N. J., Bridgeton**—May 31, by Bd. Freeholders Cumberland Co., constructing Sects. 2 and 3 of Landis Ave., warrenite bitulithic on Portland cement concrete foundation. W. M. Sharp, co. engr.; adv. this issue. Noted Dec. 22.

**N. J., Trenton**—June 6, by Mercer Co., constructing State Highway Route 2, Sect. 3A, White Horse-Crosswicks Creek, reinforced cement concrete. H. F. Harris, Court House, engr.; adv. this issue.

**Pa., Ebensburg**—May 29, by Controller Cambria Co., 1,578 ft. vitr. brick or concrete on Bakerton Rd. I. J. Pfeister, Spangler, engr.

**Pa., Ebensburg**—May 31, by Supervs. Cambria Twp., c/o Controller, paving 6,543 lin.ft. Route 62, Colver and Cambria Twps., vitr. brick or one course rein.-con. Owen & Plummer, Otto Bldg., Johnstown, engr.

**Pa., Susquehanna**—June 5, by Boro. of Susquehanna Depot, paving 8 streets. W. A. Taylor, boro. engr.; adv. this issue.

**West Virginia**—June 6, by State Hy. Dept., Charleston, constructing roads and bridges on following projects, 3038, Fayette Co.; 1128 Kanawha Co.; 3059, Logan Co.; 3063, Wyoming Co.; 3119, Mingo Co.; 3058, Mason Co.; 55, Tyler Co.; 3069, Roane Co.; 3074, Jackson Co.; 3075, Jackson Co.; 3089, Hancock Co.; 3114, Brooke Co.; 3115, Ritchie Co.; 3117, Wetzel Co.; 3141, Marshall Co., 120, Ohio Co., 3019, Preston Co; 3024, Upshur Co.; 3025, Taylor Co.; 3022, Lewis Co., 3110, Braxton Co.; 3020, Doddridge Co.; 3123, Harrison Co.; 115, Berkeley Co.; 3034 Jefferson Co.; 3029, Tucker Co.; 3105 and 3103, Pendleton Co.; 3011, Hampshire Co.; 34 and 60, Monroe Co.; 84 and 2006, Fayette Co.; 1 and 2003, Greenbrier Co.; 2039, 2040, 2042, 2043 and 2044, Mercer Co.; 72, Hampshire Co.; 62 Hardy Co.; 64, Jefferson Co.; 67, Berkeley Co.; 1131, Berkeley Co.; 2093, Mineral Co. Projects 72, 62, 64, 67, 1131 and 2093 will be covered by one contract. E. B. Carskadon, secy.; adv. this issue.

**W. Va., Moundsville**—May 22, paving Jefferson and Morton Aves., brick, block or concrete and cement. $50,000. L. L. Stidger, clk.

**N. C., Rockingham**—May 23, by Bd. Aldermen, 18,000 cu.yd. excav. and grading, 45,000 sq.yd. paving, 40,000 lin.ft. curb and gutter, etc. Mees & Mees, Charlotte, consult. engrs.; adv. this issue.

**S. C., Sumter**—May 31, by Sumter Co. Rd. Comrs., hard surfacing 4 mi. Pinewood Rd. and 1.5 mi. Camden Rd. Lee, Pennell & Murray, Sumter, engrs.

**Georgia**—May 23, by State Hy. Dept., at Court House, Washington, 8 mi. sand-clay road in Wilkes Co. $60,000. W. Greenslade, Augusta, engr. Div. No. 5.

**Fla., Homestead**—May 24, 115,000 ft. concrete sidewalks and 7,200 lin.ft. curb and gutter. $40,000. B. M. Duncan, Homestead, engr.

**Fla., Pensacola**—May 30, by Comrs. Escambia Co., constructing Pensacola-Nunez Ferry Rd., Project 4, Pensacola-Flomaton Rd., Project 5 and Pensacola-Flomaton Rd., Project 6. L. S. Gilmore, chn. co. comrs.; adv. this issue.

**Alabama**—June 6, by State Hy. Comn., Montgomery, grading and surfacing 8,696 mi. Jackson Highway from river bridge near Sheffield to beginning of Federal Aid Project 22, Colbert Co., Sects. A and B involve 15,111 cu.yd. excav., 1,000 sta.yd. overhaul, 110 cu.yd. concrete, 5,915 lb. reinforcing, 38,000 sq.yd. surfacing, (bids will be received on following types), one course plain cement concrete, Kentucky rock asphalt on concrete base, sheet asphalt on concrete base, warrenite bitulithic on concrete; Sect. C involves 19.52 acres clearing, 30,245 cu.yd. common and 4,040 cu.yd. solid rock excav., 23,493 sta.yd. overhaul, 755.44 cu.yd. concrete, 96,657 lb. reinforcing, 13,458 cu.yd. imported gravel surfacing, etc. W. S. Keller, state highway engr.

**Tennessee**—June 9, by State Hy. Dept., Nashville, surfacing and bridging 6.61 mi. Federal Aid Project 49 between Rutherford Co. line and Woodbury, Cannon Co., incl., 23,130 cu.yd. common, 8,397 cu.yd. solid rock excav., 24,503 cu.yd. borrow, 69,777 sq.yd. 2½ in. bituminous macadam penetration surface, 686.2 cu.yd. concrete, 71,716 sq.yd. 8 in. standard hand placed coarse stone base course, 2,874.09 cu.yd. concrete in bridges over 20 ft. span, etc. D. Q. McComb, Nashville, ch. engr.

**Ohio**—May 31, by Dept. Highways and Pub. Wks., Columbus, grading, bridging and paving roads in following counties:

Ashland Co., Sect. "B" Mansfield-Ashland Rd., 3.523 mi., monolithic brick, $134,367; state to furnish monolithic brick, $91,942; brick, $136,112; state to furnish brick, $98,882; rein.-con., $104,871.

Belmont Co., Sect. "G" Barnesville-Woodsfield Rd., 2.254 mi., bituminous macadam tar or asphalt, $81,492.

Columbiana Co., Sect. "F-1" Youngstown-Lisbon Rd., brick, $98,919; state to furnish brick, $80,805; bituminous macadam tar or asphalt, $78,930.

Fayette Co., Sect. "G" Washington-London Rd., 4.268 mi., waterbound macadam, $90,078; bituminous macadam asphalt or tar, $102,211.

Hardin Co., Sect. "J" Lima-Kenton Rd., 3.298 mi., bituminous macadam tar or asphalt, $98,789; Kentucky rock asphalt, $114,012; rein.-con., $100,424; bitummous concrete, $112,475.

Hardin Co., Sect. "H" Lima-Kenton Rd. 3.337 mi., bituminous macadam, asphalt or tar, $86,548; Kentucky rock asphalt, $103,634; rein.-con., $109,785; bituminous concrete, $101,406.

Hardin Co., Sect. "I" Lima-Kenton Rd., 2.159 mi., bituminous macadam, tar or asphalt, $60,521; Kentucky rock asphalt, $74,130; rein.-con., $65,582; bituminous concrete, $120,148.

Hardin Co., Sect. "H" Marion-Kenton Rd., 3.011 mi., bituminous macadam, asphalt or tar, $64,587; Kentucky rock asphalt $82,230; rein.-con., $92,632; bituminous concrete, $82,230.

Huron Co., Sect. "B" Tiffin-New Haven Rd., 2.06 mi., bituminous macadam, tar or asphalt, $61,000.

Knox Co., Sect. "M" Mt. Vernon-Coshocton Rd., 5.525 mi., waterbound gravel, $66,480.

Marion Co., Sect. "A" Marion-Bucyrus Rd., 2.952 mi., bituminous macadam, A-1 b, $58,591; brick, $89,471; bituminous macadam, tar or asphalt, $56,085.

Marion Co., Sect. "B" Marion-Bucyrus Rd., 3.747 mi., bituminous macadam, tar or asphalt, $95,770; brick, $132,916; bituminous macadam A-1 b $98,945.

Morrow Co. Sect. "J" Marion-Galion Rd., 2.233 mi., bituminous macadam, asphalt or tar, waterbound limestone macadam base, $72,495; bituminous macadam, asphalt or tar, sandstone base, $65,060.

Morgan Co., Sect. "C" McConnelsville-Zanesville Rd., 1.8 mi., rein.-con., $59,085.

Ottawa Co., Sect. "H" Port Clinton-Marblehead Rd., 3.619 mi., rein.-con., $98,505; bituminous macadam asphalt or tar, $82,823; bituminous concrete, $98,921.

Putnam Co., Sect. "N" Lima-Ottawa Rd., 2.718 mi., Kentucky rock asphalt, $72,019; rein.-con., $72,920.

Putnam Co., Sect. "O" Lima-Ottawa Rd., 0.58 mi., Kentucky rock asphalt, $14,624; rein.-con., $15,230.

Putnam Co., Sect. "Columbus Grove" Lima-Ottawa Rd., 1.21 mi., Kentucky rock asphalt, $34,212; rein.-con., $33,213.

Richland Co., Sect. "R" Mansfield-Ashland Rd., 0.877 mi. brick, $60,404.

Sandusky Co., Sect. "T" & "U" Lima-Sandusky Rd., 5.727 mi., brick, $216,367; state to furnish brick, $160,448; rein.-con., $177,854; bituminous concrete, $205,960.

Seneca Co., Sect. "G" Columbus-Sandusky Rd., 4.241 mi., bituminous macadam, asphalt or tar, $84,145; brick, $142,121; bituminous concrete, $106,578.

Seneca Co., Sect. "F-1" Findlay-Tiffin Rd., 1.13 mi., bituminous concrete, $39,680; rein.-con., $38,910.

Stark Co., Sect. "A" and "Minerva" Minerva-Sandyville Rd. 0.805 mi., monolithic brick, $28,641; plain concrete, $28,264; bituminous macadam, asphalt or tar, $19,275.

## Streets and Roads (Continued)

Summit Co., Sect. "N-2" Cleveland-Massillon Rd., 3.494 mi., rein.-con., $116,494; bituminous concrete, $130,740; brick, $151,672.

Summit Co., Sect. "O" Cleveland-Massillon Rd., rein.-con., $27,548; bituminous concrete, $31,459; brick, $37,284.

Summit Co., Sect. "Clinton" Cleveland-Massillon Rd., rein.-con., $21,845; bituminous concrete, $24,226; brick, $27,815.

Tuscarawas Co., Sect. "New Comerstown" Uhrichsville-New Comerstown Rd., 0.63 mi., brick, $35,735; asphaltic concrete, $30,855; Kentucky rock asphalt, $30,014.

Portage Co., Sect. "F" Warren-Burton Rd., 1.933 mi., rein.-con., $80,881.

Vinton Co., Sect. "M" McArthur-Chillicothe Rd., 4.406 mi., grading only, $52,835.

Wayne Co., Sect. "E" and "F" Akron-Wooster Rd., 5.026 mi., grading only, $33,823.

Preble Co., Sect. "D" Eaton-Hamilton Rd., bridge, and approaches, $34,705.

Preble Co., Sect. 'D" Eaton-Hamilton Rd., steel superstructure for bridge, $18,731. L. C. Herrick, dir. highways.

**O., Cleveland**—May 26, paving Lorain Ave., West 57th, 58th and 59th Sts., brick; surface treating and repairing Magnolia, Hazel, Mistleto and Juniper Drives. To exceed $50,000. R. Hoffman, City Hall, engr.

**O., Columbus**—May 23, by W. H. Duffy, dir. Pub. Serv., grading, curbing, laying water mains and paving Webber St. from Indianola Ave. to Cleveland, Cincinnati, Chicago & St. L. R.R. tracks, 1172 ft. long, 30 ft. wide, brick, $29,491, asphalt $27,378; alley north of Chittenden Ave. from Pearl St. to Indianola Ave. 783 ft. long, 20 ft. wide, brick, $3,748, concrete, $2,951; alley north of Frambes Ave. from High to Peasley Sts., 2,350 ft. long, 16 ft. wide, brick, $6,871, concrete, $5,458; alley west of Hunter St. from 4th to 5th Ave., 594 ft. long, 15 ft. wide, brick, $8,199, concrete, $6,721; alley west of Linwood Ave. from Broad St. to Madison Ave., 460 ft. long, 20 ft. wide, brick, $2,820, concrete, $2,162; alley west of Michigan Ave. from 3rd to 4th Aves., 672 ft. long, 18 ft. wide, brick, $4,858, concrete, $3,854; alley north of Madison Ave. from the alley west of Linwood Ave. to Linwood Ave., 162 ft. long, 12 ft. wide, brick, $2,293, concrete; $1,905; alley north of 9th Ave. from alley west of Neil Ave. to Michigan Ave., 289 ft. long, 20 ft. wide, brick, $2,823, concrete, $2,307; alley north of Northwood Ave. from alley west of 4th St. to 2nd alley west of 4th St., 287 ft. long, 16 ft. wide, brick, $1,858, concrete, $1,484; alley west of Neil Ave., from King to 8th Aves., 603 ft. long, 18 ft. wide, brick, $2,772, concrete, $2,162; alley north of 13th Ave., from Pearl St. to alley west of Summit St., 1314 ft. long, 20 ft. wide, brick, $12,365, concrete, $10,078. R. H. Simpson, city engr.

**O., Worthington**—May 20, grading, curbing and paving Berlin and Morning Sts., 3,500 sq.yd. brick or asphalt. $25,000. Jennings-Lawrence Co., Hartman Bldg., Columbus, engrs.

**Ind., Goshen**—May 27, by Comrs. Elkhart Co., grading and gravel surfacing 13,000 ft. County Unit Rd. 14, 16 ft., $25,000; 15,826 ft. County Unit Rd. 30, 17 ft., $27,000.

**Michigan**—May 23, by State Hy. Dept., Lansing, grading and surfacing 1.386 mi. Federal Aid Project 52, Sect. A and State Trunk Line Rd. 17-11, Kalamazoo Co., 7,399 cu.yd. excav., 16,263 sq.yd. asphalt, concrete or bituminous concrete. L. H. Belknap, ch. engr.

**Michigan**—May 24, by State Hy. Dept., Lansing, grading and surfacing 12.08 mi. Federal Aid Project 65, St. Clair Co., 2,294 cu.yd. excav., 127,572 sq.yd. asphalt, concrete, or bituminous concrete, 601.8 sta. grading, also 1.18 mi. State Trunk Line Rds. 13-33 and 88-1, Sect. E, Antrim Co., 3,133 cu.yd. excav., 5,782 sq.yd. asphalt, concrete or bituminous concrete. L. H. Belknap, ch. engr.

**Michigan**—May 25, by State Hy. Dept., Lansing, grading and surfacing 6.825 mi. State Trunk Line Rd. 46-2, incl. 28,557 cu.yd. excav., 64,071 sq.yd. gravel, also 3.493 mi. State Trunk Line Rd. 46-5, incl. 14,869 cu.yd. excav., 32,774 sq.yd. gravel, both Montcalm Co. L. H. Belknap, ch. engr.

**Wisconsin**—May 23, by State Hy. Comn., at div. office 8, First Natl. Bank Bldg., Superior, grading and surfacing 17.2 mi. Couderay-Hayward Rd., Federal Aid Project 263, Sawyer Co., incl. 64.94 acres clearing, 82,937 cu.yd. earth and 11,700 cu.yd. rock excav., 11,700 cu.yd. borrow, 8,450 cu.yd. gravel surfacing, 11,720 ft. intercepting ditches; 4.98 mi. Bayfield-Cornucopia Rd., Federal Aid Project 1018, Bayfield Co., 35.3 acres clearing, 35.3 acres grubbing, 32,000 cu.yd. earth, 704 cu.yd. borrow, 6,000 cu.yd. loose and 100 cu.yd. solid rock excav., 8,500 cu.yd. top soil surfacing; 9.24 mi. Hayward-Minong Rd., Federal Aid Projec 149, Washburn Co., 70 acres clearing, 70 acres grubbing, 52,800 cu.yd. earth, 12,000 cu.yd. loose and 1,000 cu.yd. solid rock excav., 6,000 cu.yd. borrow, 13,400 cu.yd. top soil surfacing, one 16 ft., two 10 ft. and one 12 ft. span wooden bridges; bridges will be paid for on basis of f.b.m. in their construction and should be bid on at so much per f.b.m. in place. A. R. Hirst, Madison, state highway engr.

**Wisconsin**—May 23, by State Highway Comn., at div. office No. 3, Nicolet Bldg., Green Bay, grading and surfacing 4.59 mi. Appleton-Medina Rd., Wisconsin Project 269 16,513 cu.yd. unclassified excav., 6,574 cu.yd. special, 161 cu.yd. borrow, 48,533 sq.yd. concrete surfacing exclusive of cement, 2,800 lb. steel in pavement. A. R. Hirst, Madison, state highway engr.

**Ia., Bloomfield**—May 25, by Auditor Davis Co., grading 12.177 mi. Federal Aid Project 153, from Appanoose Co. line east through West Grove to Bloomfield, 167,766 cu.yd. excav., etc.

**Ia., Charles City**—June 1, by Auditor Floyd Co., grading and paving 2.6 mi. North Iowa Pike, Sect. A, between Rudd and county line, 23,773 cu.yd. excav. and 27,364 sq.yd. paving. $62,000. J. S. Dawson, Charles City, engr.

**Ia., Corydon**—June 1, by Auditor Wayne Co., grading 15.285 mi. Federal Aid Project 150, from Decatur Co. line east toward here, east and west through Promise City, and from Seymour north, 183,906 cu.yd. excav., 17,620 ft. 6 in. tile, etc.; 3.711 mi. Federal Aid Project 91, Sect. 3, primary road east of here, 139,543 cu.yd. excav.

**Ia., Corning**—June 14, by Auditor Adams Co., grading 13.765 mi. Federal Aid Project 152, 212,096 cu.yd. earth excav., 8,565 ft. 6 in. tile, etc.

**Ia., Cresco**—May 24, coating 32,000 sq.yd. concrete pavement with ⅜ in. tarvia. M. J. McArthur, clk.

**Ia., Montezuma**—May 24, by Auditor Poweshiek Co., grading 16.18 mi. Federal Aid Project 174, primary road north from county line to the River to River Rd. via Montezuma and Malcom, 168,040 cu.yd. excav., 44,867 lin.ft. 6 in. tile, etc.

**Wyoming**—June 1, by State Hy. Dept., Cheyenne, grading and building culverts on 13.4 mi. Federal Aid Project 118, Yellowstone Highway through Wind River Canyon, Hot Springs Co., 20 and 24 ft., 286,900 cu.yd. rock excav., 217 sq.yd. concrete, 5,000 cu.yd. dry rubble masonry, 13,000 cu.yd. embankment backfill, etc., $489,000; 6.2 mi. Federal Aid Project 123, Lincoln Highway between Lookout and Rock River, Albany Co., 24 ft., $40,000; grading, surfacing and building culverts on 6.5 mi. Federal Aid Project 117, New Castle to Four Corners Rd., Weston Co., 24 ft., $55-,700; 5.8 mi. Federal Aid Project 114, Garland-Deaver Rd., Park Co., 20 ft., $68,500; 2.7 mi. Federal Aid Project 126, Cody-Meeteetse Rd., Park Co., 24 ft., $25,000; 5.7 mi. Federal Aid Project 124, Granger-Cokeville Rd., between Fossil and Nugget, Lincoln Co., 24 ft., $50,000. Z. E. Sevison, state highway engr. Noted Jan. 12.

**Missouri**—May 25, by State Hy. Dept., at div. office New London, 3.829 mi. road from New London southwestward, State Aid Project 20.168, Ralls Co., 20,222 lin.ft. grading, 18,773 sq.yd. waterbound macadam and 12,883 sq.yd. gravel surfacing. A. Graham, Jefferson City, state highway engr.

**Missouri**—May 26, by State Hy. Dept. at div. office Ironton, 11.26 mi. road from Ironton to Poosi, Federal Aid Project 107, Sect. A, Iron Co., 30,717 cu.yd. earth and 1,673 cu.yd. rock excav., 27,549 cu.yd. borrow, 536.7 cu.yd. concrete masonry, etc. A. Graham, Jefferson City, state highway engr.

**Tex., Dallas**—June 5, by Dallas Co., paving and surfacing 18.3 mi. Seagoville Rd. from Dallas to Kaufman Co. line, 20 ft., waterbound macadam with bituminous surface treatment. $370,540. Nagle-Witt-Rollins, Courthouse, engrs. Noted April 27.

**Colorado**—May 26, by State Hy. Dept., Denver, paving 2.736 mi. Denver-Ft. Collins Rd., Federal Aid Project 222 A, Adams, Boulder and Jefferson Counties, 6,800 cu.yd. borrow fill, 3,100 sta.yd. overhaul, 5,300 cu.yd. common earth excav., 28,900 sq.yd. one course plain cement concrete, 2,600 lb. reinforcing, $108,340; 0.944 mi. Denver-Morrison Rd., Federal Aid Project 30, Jefferson Co., 4,400 cu.yd. borrow fill, 6,700 sta.yd. overhaul 10,000 cu.yd. earth and 3,400 cu.rd. rock excav., 9,974 sq-yd. concrete, 5,616 lb. reinforcing, $59,755. L. D. Blauvelt, State Office Bldg., Denver, engr.

**Wash., Olympia**—June 2, concrete paving Franklin and Washington Sts., et. al. $110,000. R. Wood, Olympia, engr.

**California**—June 5, by State Hy. Comn., Sacramento, concrete paving 5.8 mi. highway between Irving and Tustin, Orange Co. A. B. Fletcher, state highway engr.

**Cal., Oxnard**—May 22, by City Clerk, 327,591 sq.ft. 6 in. concrete on 5th St., 52,812 sq.ft. 5 in. on Meta St., 79,191 sq.ft. 5 in. on 6th St. and 56,106 sq.ft. 5 in. on Enterprise St. S. G. Bennett, city engr.

**Cal., San Diego**—May 29, by Bd. Supervs. San Diego Co., paving Mission Rd. from Camp Kearney over Poway Ridge, 62,724 sq.yd. 5 in. concrete. G. Butler, Surv.

**Cal., Santa Rosa**—May 29, by Supervs. Sonoma Co., improving 4 mi. Valley Forge-Freestone Rd., 10,800 cu.yd. excav., 1,600 cu.yd. crushed rock base, 1,330 cu.yd. rock surfacing, 32,200 cu.yd. asphalt surfacing, etc. R. P. Smith, Santa Rosa, engr.

**Quebec**—May 29, by J. L. Perron, minister of pub. roads, Parliament Bldgs., Quebec, macadamizing 10¼ mi. Levis-Jackman Highway, village of St. Henri, Parishes of St. Henri de Lauzon and St. Louis de Pintendre.

**Quebec**—May 30, at office J. L. Perron, minister of roads, Parliament Bldgs., Quebec, resurfacing following roads with waterbound macadam; Gouin Blvd., in Montreal-Nord Town; Bord de L'Eau Rd in St. Joseph de la Rivere des Prairies Parish, in Laval des Rapides town, in l'Abord a Plouffe Village and in St. Martins Parish; Bord de L'Eau and Gravelby Rds. in St. Dorothee Parish.

**Que., Sherbrooke**—May 22, by H. C. King, City Hall, paving various streets, incl. 6,200 sq.yd. granite block, 3,850 sq.yd. concrete, 9,600 sq.yd. concrete base. T. Tremblay, City Hall, engr.

**Ont., St. Catherines**—May 25, by W. P. Near, city engr., 6,000 sq.yd. concrete pavement, 10,000 sq.yd. concrete foundation, 9,000 lin.ft. concrete sidewalks, curbs and gutters. $28,000.

**Ont., Welland**—May 24, by W. A. Swayze, engr., County Bldg., 2½ mi. road in Crowland Twp. and 2 mi. in Thorold Twp., bituminous penetration. $115,000.

### BIDS RECEIVED

**N. Y., Albany**—Bd. Contract & Supply paving various streets (a) asphalt, (b) asphalt without binder, from Willite Constr. Co., 51 Chambers St., New York, (1) $1.40 per sq.yd., (2) $1.35; M. F. Dollard, 36 State St., (1) $2.90, (2) $2.70. To exceed $25,000. Noted April 27.

**N. Y., Brooklyn**—E. Riegelmann, boro pres., Boro Hall, opened bids May 10, repaving (1) Albany Ave., (2) Boerum Pl., (3) Halsey St., (4) Hanover Pl., (5) Linden St., (6) Putnam Ave., (7) Ridge Blvd., (8) Sterling Pl., (9) Wallabout St., grading, curbing and laying sidewalks on (10) 59th St., (11) 74th St., from Borough Asphalt Co., 1301 Metropolitan Ave., (1) $39,867, (4) $3,580, (5) $10,057, (7) $6,691; Uvalde Asphalt Paving Co., 1 Bway., New York, (1) $40,371, (2) $23,842, (3) $79,628, (4) $3,336, (5) $9,676, (6) $44,411, (8) $12,423; Cranford Co., 52 9th St. (1) $40,497, (2) $24,917, (3) $80,490, (4) $3,517, (5) $10,173, (6) $45,568, (7) $6,858 (8) $12,931; Sicilian Asphalt Paving Co., 41 Park Row, New York, (2) $24,439, (3) $77,933, (6) $41,322, (7) $6,771, (8) $12,710; F. Donovan Sons Contg. & Trucking Co., 614 Union St., (9) $9,787; J. D. Norton, 20 Sterling Pl., (9) $9,932; C. Gallagher, 745 Dean St., (9) $10,018, (10) $3,592, (11) $3,099; T. B. Scott, (10) $3,391; J. Hardigan, (10) $3,623; F. Persicano, 513 Midwood St., (11) $3,893; G. M. Mandatto, 129 29th St., (11) $4,039. Noted May 4.

**N. Y., Brooklyn**—E. Riegelmann, boro pres., Boro Hall, opened bids May 12, curbing and paving roadway of Coney Island Ave., etc., from J. D. Norton, 20 Sterling Pl., $70,396; Sovero & Britton, $82,175; C. Gallagher, 745 Dean St., $85,340. Noted May 4.

**N. Y., Buffalo**—Dept. Pub. Wks., opened bids May 5, repaving, (1) Ellicott St. from Virginia to Goodrich Sts., (2) Northland Ave. from Scajaquada Creek to point 96 ft. west of Fillmore Ave., paving (3) Fredro St. from Clinton to Casimir Sts., (4) Fuller St. from Ontario to Briggs Sts., (5) Jackson St. from Church to Genesee Sts., (6) Midway Ave. from Bailey to Comstock Sts., (7) Parkridge Ave. from Winspear St. to point 150 ft. southerly, (8) Spann St. from Clinton to Casimir Sts., repaving and widening (9) Main St. from point 830 ft. north of Hertel Ave. to old city line, etc., with (a) asphalt and block stone, (b) asphalt, (c) brick and block stone, (d) brick, (e) medina sandstone, from H. P. Burgard Co., 1968 Fillmore Ave., (1a) $35,300, (1b) $24,000, (2b) $20,350, (3b) $17,430, (4b) $17,350, (5b) $5,150, (6b) $13,600, (7b) $2,275, (8b) $18,100, (9b) $53,910 and $61,480; Rock Asphalt & Constr. Co., Morgan Bldg., (1a) $35,700, (2b) $20,716, (3b) $17,325, (4b) $16,826, (5b) $5,200, (6b) $14,013, (7b) $2,265, (8b) $17,890, (9b) $52,427 and $59,062; Erie Contg. Co., Morgan Bldg., (1c) $35,948, (3d) $17,750, (4d) $19,000, (5d) $5,875, (5e) $8,400, (6d) $15,770, (7d) $2,845, (8d) $18,500; B. F. Spire, 24 Colonial Circle, (3d) $20,300, (5d) $5,850, (5e) $8,340, (8d) $21,190. Noted April 27.

Streets and Roads (Continued)

**N. Y., Syracuse**—Bd. Contract & Supply, paving Hastings Pl., vitr. brick, from F. J. Baker Constr. Co., University Block, $14,183; resurfacing Midland and Burnet Aves., from C. T. Hookway, Bastable Bldg., $7.113 and $18.286 respectively; Hawley Ave., from G. B. Dickison, Union Bldg., $6,094.

**N. J., Union Hill**—Hudson Co. (Jersey City), opened bids May 11, grading and paving ⅜ mi. Hackensack Plank Rd. between Hudson Blvd. and Pleasant Ave., here, from R. J. Emmer, 150 Nesbit St., Weehawken, $142,253; T. A. Capone, 517 Malone St., West Hoboken, $143,243; Curtin Bros., 45 Madison St., Guttenberg, $145,010. Noted May 4.

**Pa., Edgewood** (Pittsburgh P. O.)—D. C. Neal, boro. engr., resurfacing with tarvia, Gordon St., Maple, Hutchinson and West Swissvale Aves., from Bowman Bros., McKeesport, $25,112; T. George, Braddock, $28,711; McCrady Bros., Braddock, $29,007. Noted May 4.

**Fla., Clearwater**—Comrs. Pinellas Co., paving (1) 26.4 mi. road from St. Petersburg via Largo to Pasco Co. line, (2) 4.25 mi. Lakeview Ave., Gulfport east to Tampa Bay, (3) 11.45 mi. from Clearwater via Safety Harbor to Hillsborough Co. line, (4) 5.95 mi. from Four Corners to intersection Clearwater-Oldsman Rd., (5) 1.05 mi. Chilito Rd. west from Tampa Springs to Kramer Bayard Gulf Rd. including ½ mi. extension on Springs Blvd., (6) 6.35 mi. West Lake Rd. from Tarpon Ave. to Rd. 3, Div. 1; (7) 6.2 mi. Dunedin, Ozono and Bayshore Rd., (8) 4.7 mi. Sunset Point-Coachman Rd., (9) 2 mi. Sever Rd. from Old Clearwater Golf Course to Haines Rd., (10) 2.32 mi. C St. in Bellair East to east Sect. line Sect. 23, (11) 6.8 mi. Largo-Haines intersection via Gandy Bridge Rd., Indianrocks and Largo intersection, including ½ mi. west of Largo to Clearwater, (12) 11.4 mi. from Largo to Clearwater Bay, (13) 5 mi. 4th St. north St. Petersburg north to Gandy Bridge, (14) 3.3 mi. 4th St. south St. Petersburg south to Point Pinellas, (15) 2.25 mi. Point Pinellas Rd. from 4th St. Rd. to Maximo Rd., (16) 2.8 mi. Maximo Rd. from Tampa Bay to Lakeview Ave., from J. G. Yates & Co., Port Tampa, (1) $663,797, (3) $337,182, (4) $160,585; Southern Clay Mfg. Co., Chattanooga, Tenn., (1) $690,267, (3) $342,508, (4) $161,347; W. H. Kendrick, Tampa, (3) $332,607; Mickler & McLeod, Tampa, (4) $157,637; Barber-Fortin Co., Warren, O., (2) $142,234, (5) $35,954, (6) $139,712, (7) $151,258, (8) $102,288, (9) $43,436, (10) $48,836, (11) $254,058, (12) $248,163, (13) $316,544, (14) $79,433, (15) $83,436, (16) $98,911; W. P. McDonald Constr. Co., 342 Madison Ave., New York, (2) $126,486, (5) $47,762, (6) $132,345, (7) $134,586, (8) $96,444, (9) $40,337, (10) $43,450, (11) $278,897, (12) $224,236, (13) $313,224, (14) $95,137, (15) $86,949, (16) $83,662; J. B. McCrary Co., 3rd Natl. Bank Bldg., Atlanta, Ga., (5) $43,619, (6) $141,390, (7) $137,134, (8) $97,748, (10) $43,365. Noted April 13.

**Ohio**—Dept. Highways and Pub. Wks., Columbus, opened bids grading, bridging and paving roads with (a) brick, (b) rein.-con., (c) Kentucky rock asphalt, (d) asphaltic macadam, (e) tar macadam, (f) concrete, (g) state to furnish brick in following counties: Crawford Co., Sect. K Columbus-Sandusky Rd., 2.034 mi., from A. J. Baltes, Norwalk, (a) $7,450. Darke Co., Sect. "Arcanum" Dayton-Greenville Rd., 0.404 mi., from Mannix Bros., Greenville, (a) $21,908; Dull & Dull, Arcanum, (a) $22,119; W. Tice, Greenville, (a) $22,552. Darke Co., Sect. "Gettysburg" Greenville-Covington Rd., 0.457 mi., from Mannix Bros., Greenville, (a) $15,764. Darke Co., Sect. "Versailles" Versailles-Western Rd., 0.588 mi., from Mannix Bros., Greenville, (a) $31,623. Defiance Co., Sect. "A" Defiance-Holgate Rd., 3.581 mi., from Erman & Seibel, Defiance, (b) $83,803; R. Doaust, Defiance, (b) $83,835, (c) $92,723; D. M. Roach, Defiance, (b) $94,074, (d) $78,567, (e) $79,247; C. S. Wilcox, Ada, (d) $79,247, (e) $79,247; Stayton Bros., Eldorado, (d) $83,332, (e) $83,332. Defiance Co., Sect. "A" Payne-Hicksville Rd., 2.024 mi., from R. Doaust, Defiance, (b) $53,705, (c) $54,485; J. Sheehan & Co., Toledo, (b) $54,988; W. L. Johnson Constr. Co., Hicksville, (b) $55,708. Mahoning Co., Sect. "C" Youngstown-East Liverpool Rd., 3.33 mi., from G. A. Gialdini & Co., Youngstown, (f) $96,454; Turner Contg. Co., Park Theatre Bldg., Youngstown, (f) $96,480; J. D. Paxon, Salem, (d) $91,172, (e) $91,172, (f) $96,649; Smith Constr. Co., Youngstown, (d) $87,955, (e) $84,735; T. W. Miller Contg. Co., 3 South Side Savings Bank Bldg., Youngstown, (d) $93,103, (e) $93,103. Marion Co., Sect. "A" Marion-Bucyrus Rd., 2.952 mi., from H. F. Ault & Son, Cardington, (a) $81,837, (g) $54,256; Newark Paving & Constr. Co., Newark, (a) $89,250, (g) $61,670; P. Drake & Sons, Marion, (a) $89,471. Marion Co., Sect. "B" Marion-Bucyrus Rd., 3.747 mi., from H. F. Ault & Son, Cardington, (a) $115,848, (g) $80,759. Newark Paving & Constr. Co., Newark, (a) $125,724, (g) $90,435; P. Drake & Sons, Marion, (a) $130,354. Mercer Co., Sect. "Celina" Celina-Greenville Rd., 0.318 mi., from Hinton, Smalley & Spriggs, Celina, (a) $14,417, (g) $9,976; G. H. Heffner & Son, Celina, (a) $14,807, (g) $10,540; J. E. Karch Sons, Celina, (a) $15,397; Central Paving Co., Hamilton, (g) $11,163. Mercer Co., Sects. "E" and "F" Celina-Wabash Rd., 6.005 mi., from C. V. Rector, Muncie, Ind., (d) $137,745 and $137,645; Homeberger Wagar Co., Feick Bldg., Sandusky, (b) $168,916; E. and G. Alexander, North Star, (b) $169,251; Hinton, Smalley & Spriggs, Celina, (b) $172,606; Newark Paving & Constr. Co., Newark, (a) $214,820, (g) $157,924. Shelby Co., Sect. "A-1" Versailles-Sidney Rd., 2.039 mi., from F. E. Milligan, Sidney, (a) $61,722, (g) $39,641; J. M. Hennessy & Bro., Piqua, (a) $62,722, (g) $44,429; F. A. Frobase Co., 628 West North St., Lima, (b) $49,972. E. and G. Alexander, North Star, (b) $50,905; C. V. Rector, Muncie, Ind., (b) $51,033, (c) $48,714. R. Stone Contg. Co., Lima, (c) $50,807; C. L. Straw, Paulding, (c) $51,965. Shelby Co., Sect. "A-1" Sidney-Bellefontaine Rd., 2.273 mi., from F. E. Milligan, Sidney, (a) $88,378, (b) $78,767, (g) $64,490; J. Frantz, Sidney, (a) $94,282, (b) $81,006; Newark Paving & Constr. Co., Newark, (a) $99,732, (g) $80,018; J. M. Hennessey & Bro., Piqua, (a) $99,732, (g) $80,018; C. V. Rector, Muncie, Ind., (b) $82,687. Noted April 27.

**O., Cleveland**—Opened bids May 10, paving (1) St. Clair Ave. N. W. from West 3rd to West 9th Sts., (2) St. Clair Ave. N. E. from West 9th to West 3rd Sts., (3) East 140th St., (4) West 6th St., from Cleveland Trinidad Paving Co., The Arcade, (1) $31,533, (2) $20,323; Genl. Asphalt Paving Co., Marshall Bldg., (1) $32,237, (2) $20,817, (4) $26,360; Gould & Maybach, 823 East 140th St., (3) $2,714; Enterprise Paving & Constr. Co., 8444 Bway., (3) $2,809. Work involves 1,040 lin.ft. stone curb and 4 in. tile gutter, 400 cu.yd. earth excav., 23,550 sq.yd. asphalt, 4,500 sq.ft. vitr. brick and concrete and relaying 97,000 sq.ft. granite block. Noted May 4.

**O., Cleveland** — Comrs. Cuyahoga Co. opened bids May 10 paving (1) Pleasant Valley Rd. 4, 13,100 lin.ft. concrete curb and gutter, 24,500 cu.yd. earth excav. and 22,600 sq.yd. limestone concrete wearing surface, (2) Pleasant Valley Rd. 3, 5,000 lin.ft. concrete curb and gutter, 10,130 cu.yd. earth excav., 16,860 sq.yd. limestone wearing surface and 2,790 sq.yd. 6 in. concrete base, from King Bridge Co., 69th St., (1) $107,210, (2) $67,921; Enterprise Paving & Constr. Co., 8444 Bway., (1) $108,956, (2) $69,417; Baldwin Bros., 4500 Euclid Ave., (1) $114,264. Noted May 4.

**O., Columbus**—Franklin Co. opened bids May 10, grading and paving (1) Potter Rd., (2) 5.91 mi. Hayden Run Rd., with (a) waterbound macadam, tar, (b) waterbound macadam, asphalt, (c) waterbound macadam, from A. W. Burns & Co., Stoneman Bldg. (1a) $70,953; D. W. Botkins & Son, 767 South 22nd St., (1a) $73,776, (1b) $72,746, (2c) $82,114; S. M. Wooley, 610 Windsor St., Marion, (1a) $76,026; W. H. Curry & Co. Columbus, (1b) $75,698; D. C. Jones, Worthington, (2c) $69,792; J. M. Snouffer, 409 East 16th Ave., (2c) $74,560. Noted May 4.

**O., Columbus**—Franklin Co. opened bids May 13, grading and paving 5.26 mi. Norton Rd., Pleasant Twp., from J. M. Snouffer, 409 East 16th Ave., $92,944; A. McMiller, 301 Clinton Bldg., $95,632; B. F. Bolin Co., 1149 Neil Ave., $98,957. Noted May 4.

**Ill., Chicago**—Comrs. Cook Co., paving (1) 13,233 ft. Sect. 105-15 D, Route 17, Lyons Twp., (2) 8,316.5 ft. Sect. 157-15 D, Route 42, Calumet Twp., (3) 6,523.3 ft. Sect. 109-15 D, Route 3A, Maine Twp. (4) 22,384.8 Sect. 104-15 D, Route 26, Thornton Twp., (5) 22,904.5 ft. Sect. 87-15 D, Route 35, Maine, Elk Grove and Wheeling Twps. (6) 5,694.3 ft. Sects. 99 and 99 B, Routes 1 and 46, New Trier and Niles Twps., (7) 13,609.1 ft. Sect. 91-15 D, Route 34, Proviso Twp., from R. F. Conway Co., 133 West Washington St., (1) $50,161, (5) $99,914, (7) $54,016. J. Mackler & Co., 2200 Chicago Rd., Chicago Heights, (1) $50,607, (7) $53,522. J. A. Sackley Co., 133 West Washington St., (1) $54,238 (2) $34,468 (6) $49,086. Lorenz & Black, Oak Glen, (2) $31,428, (4) $91,622. Pronger & Black, Blue Island, (2) $34,274. Ernst Eng. and Constr. Co., 3225 Sunnyside Ave., (3) $27,321. Central Paving Co., 179 West Washington St., (3) $30,375, (6) $48,747. Summerville-Maier Constr. Co., 1640 Chicago Rd., Chicago Heights, (4) $90,792. Public Constr. Co., Rimbach Bldg., Hammond, Ind., (4) $91,574. Warner Constr. Co., 106 North La Salle St., (5) $105,246, (7) $56,515. C. E. Carson & Co., 155 North Clark St., (5) $107,355.

**Missouri**—State Hy. Dept. at div. office Ava, opened bids April 27, 8.768 mi. road northward, southward, eastward and westward through Douglas Co., State Aid Project 20.153, Douglas Co., (1) 46,859 cu.yd. earth excav., (2) 13,307 cu.yd. borrow, etc., from Summerfield Jones Co., Springfield, (1) $0.34 per cu.yd., (2) $0.30, total $36,122; Short & Brawer, oMnett, (1) $0.30, (2) $0.30, $39,614; M. E. Gillioz, Monett, (1) $0.37, (2) $0.3, $42,116. Noted April 20.

**Missouri**—State Hy. Dept. at div. office Savannah, opened bids April 24, 8.03 mi. road from Savannah northward and southward to Jefferson Highway, State Aid Project 20.121, Andrew Co., (1) 63,410 cu.yd. earth excav., (2) 2,231 cu.yd. rock excav., (3) 2,125 cu.yd. borrow, etc., from T. J. Morris & Co., Carmi, Ill., (1 )$0.20, (2) $1.50, (3) $0.20, total $27,288; Allison-Dillingham, St. Joseph, (1) $0.28, (2) $1.25, (3) $0.20, $31,677; H. H. Hannenkratt, 5330 Brooklyn St., Kansas City, (1) $0.27, (2) $1.40, (3) $0.26, $32,585. Noted April 6.

**Missouri**—State Hy. Dept. at div. office Tuscumbia, opened bids April 21, 5.193 mi. road from Steeleville to Cherryville, State Aid Project 20.149, Crawford Co., (1) 22,359 cu.yd. earth excav., (2) 3,057 cu.yd. rock excav., (3) 15,372 cu.yd. borrow, etc., from Birmingham & Jones, St. James, (1) $0.35, (2) $2, (3) $0.35, total $25,561; Republic Concrete Constr. Co., Republic, (1) $0.40, (2) $1.75, (3) $0.35, $26,028; Maloney & Whalen, St. Louis, (1) $0.50, (2) $1.75, (3) $0.45, $29,224. Noted April 6.

**Tex., Glen Rose**—Somervell Co. grading and gravel surfacing 3.91 mi. State Highway No. 10-A and No. 25, from McCollum Constr. Co., 1507 F. & M. Bldg., Ft. Worth, $35,524; Scarbrough & Davis, 100 Gaston Bldg., Dallas, $37,395; Martin & Sims, Granbury, $38,433. Noted April 20.

**Tex., Hillsboro**—Hill Co. paving (1) 5.8 mi. State Highway 2-A from Colorado to Gulf Highway, State Aid Project 114, (2) 9.91 mi. State Highway 2-A, Federal Aid Project 122, (3) 7.15 mi. State Highway 6, King of Trails North, (4) 11.75 mi. State Highway 6, King of Trails South, from Uvalde Rock Asphalt Co., Swearingen Bldg., San Antonio, (1) $54,159, (2) $79,892 Smith Bros., Crockett, (1) $54,731, (2) $80,764; Uvalde Paving Co., 1006 Insurance Bldg., Dallas, (1) $64,900, (2) $95,765; Wear & Thomas, Rogers, (3) $26,509, (4) $40,753; McCollum Constr. Co., 1507 F & M. Bldg., Ft. Worth, (3) $26,574, (4) $41,224; S. E. Finley & Hannah Constr. Co., c/o M. Hannah, Box 991, Waco, (3) $27,082, (4) $42,392.

**Tex., Wichita Falls**—Wichita Co. opened bids April 24, paving 8.16 mi. Meridian Highway, State Highway 2, from point 7½ mi. north of here to Red River, (a) one course rein.-con., (b) overhaul on concrete pavement, (c) wood guard fence, from Wichita County, c/o J. P. Jones, co. judge, (a) $3.06, (b) $0.40, (c) $0.70, total $281,167; McCollum Constr. Co., 1507 F & M Bank Bldg., Ft. Worth, (a) $3.15, (b) $0.27, (c) $0.70, total $284,004; Tibbetts Constr. Co., 209½ West 8th St., Ft. Worth, (a) $3.18, (b) $0.25, (c) $0.65, total $285,688. Noted 13.

**Cal., Gustine**—Improving portions South Ave., 6th and 4th Sts., from Warren Constr. Co., Rialto Bldg., San Francisco, $35,430. Noted March 30.

**Cal., Redondo Beach**—Paving with concrete Strand St., from E. L. Garretson & Son, 2083 Hawthorne St., Los Angeles, $76,603; Napier & Simpson, Los Angeles, $81,932; C. E. Greene, Los Angeles, $88,252. Noted April 20.

**Cal., Salinas**—Improving (1) Harvest St. between South Main and California Sts., (2) San Luis St. between Main and Front Sts., (3) Winham St. between South Main and California Sts., (a) grading, (b) curbing, (c) 4 in. concrete pavement, (d) 5 in. concrete pavement, from W. A. Dontanville, Gilroy, (1a) $0.03, (1b) $0.62, (1c) $0.185, total $17,386; (2a) $0.03, (2b) $0.62, (2d) $0.215, total $15,186; (3a) $0.03, (3b) $0.62, (3c) $0.185, total $14,502.

## CONTRACTS AWARDED

**Maine**—State Hy. Dept., Augusta, 2.56 mi., Project 37 F, in Jay and Wilton, 4,892 cu.yd. gravel, 343 cu.yd. concrete, 754 cu.yd. gravel base, 1,089 cu.yd. stone base, 339 cu. yd. gravel sub-base, to R. H. Newell Co., Uxbridge, Mass., $34,353; 1.48 mi. Project 20 H, in Fairfield, 23,400 gal. hot and 11,700 gal. cold bituminous material, 5,400 cu. yd. earth excav., 15,600 sq.yd. bituminous macadam, 1,576 cu.yd. stone base, 1,415 cu. yd. sand clay base, to A. D. Bridges Sons, Inc., Hazardville, Conn., $30,677. Noted April 13.

Streets and Roads (Continued)

**New Hampshire**—State Hy. Dept., Concord, paving 1.25 mi. highway, 2 in. modified asphalt, Hampton, to Winslow & Cummings, Nashua. $25,000.

**Vermont**—State Hy. Dept., Montpelier, gravel surfacing 1.14 mi. Burlington-South Hero Rd., and one 40-ft. span I-beam bridge in South Hero and Milton, 110 sq.yd. asphalt, 45 cu.yd. concrete, 12,732 cu.yd. stone fill, 1,805 cu.yd. surface course, 16,931 sq.yd. rip rap, 4,750 lb. reinforcing steel, 1 steel bridge superstructure, to Lawton & Van Wirt, Glens Falls, N. Y., $60,720; 0.2 mi. Montpelier-East Montpelier Rd., and 90-ft. steel bridge in East Montpelier, 484 cu.yd. gravel, 8,000 lb. reinforcing steel, 220 sq.yd. bituminous surface, 400 cu.yd. gravel surface, etc., to Hoyt Constr. Co., 185 Dartmouth St., Holyoke, Mass., $22,129; 6 mi. Bridgewater-Woodstock Rd., 5 steel bridges and repairs to another bridge, in Bridgewater, 1,742 cu.yd. concrete, 22,186 cu.yd. earth and 4,500 cu.yd. rock excav., 2,841 cu. yd. field stone base, 8,758 cu.yd. gravel, 5,000 cu.yd. crushed gravel, 591 sq.yd. asphalt wearing surface, 41,578 lb. reinforcing steel, to Lawton & Van Wirt, Glens Falls, N. Y., $141,535. Noted April 13.

**Vt., Bennington**—Paving West Main St., 8,530 sq.yd. concrete, 5,200 lin.ft. concrete curbing and guttering, 2,700 cu.yd. excav., 1,000 ft. sewer pipe, to Hassam Paving Co., 17 Federal St., Worcester, Mass. $30,850.

**R. I., Warren**—Paving Main St., 9,225 sq. yd. waterbound macadam, bituminous surface, to L. Callan, Bristol. $30,000. Noted May 4.

**Conn., Darien**—Paving 2⅜ mi. West Ave. extension, West and Maple Aves., concrete, to W. H. Arthur, Crescent St., Glenbrook, $74,613. Noted April 20.

**Conn., Hartford**—Bd. Contract and Supply, 2,670 sq.yd. sheet asphalt on concrete, Ann St., and 8,000 sq.yd. asphalt pavement repairs on various streets, to E. Balf Co. 26 State St., Hartford. $30,000.

**N. Y., Bath**—Bd. Supervs. Steuben Co. will construct approximately 28 mi. bitulithic highway by day labor, under supervision of W. G. Kellogg, Greenwood, co. supt. of highways. $3,500-$15,000 per mile.

**N. Y., Buffalo**—To H. P. Burgard Co., 1968 Fillmore Ave., paving Grimes St. and West Northrup Pl., $40,675, Ada Pl., Wohlers Ave., Ash and Schiller Sts., $57,360, all foregoing standard asphalt specification "B," Schuttrum, Quincy and Marvin Sts., $39,670, standard asphalt specification "B" on concrete; to Rock Asphalt & Constr. Co., Morgan Bldg., Winslow Ave., Lester, Walter and Masten Sts., $60,636, Mosell St., Maywood and Melvin Places, $38,578, standard asphalt, specification "B."

**N. Y., Canandaigua**—Bd. Supervs. Ontario Co. will construct Baptist Hill-Fishers Corners Rd. and Bristol-Canandaigua Rd. in Bristol, $5,037; Leahys Corner Rd., Canandice, $4,830; Livingston Co. Line-Ball Hill Rd., Canandice, $4,945; Bristol-Canandaigua Rd., Canandaigua, $6,900; Farmington-Mendon Rd., Farmington, $8,050; Geneva-Yates Co. line Rd., Geneva, $7,475; South Cottage City Rd., Gorham, $6,900; Canandaigua-Hopewell Center Rd., Hopewell, $7,475; Clifton Springs Rd., Manchester, $8,050; South Bristol-Naples Rd., Naples, $7,750; Oaks Corners Rd., Phelps, $1,475; Culvers Corners Rd., Richmond, $8,050; Seneca-Geneva Rd., Seneca, $4,600; South Bristol-Naples Rd., South Bristol, $2,300; Cottrells Corners Rd., West Bloomfield, $5,185, by day labor under supervision of H. S. Washburn, co. supt.

**N. Y., Franklinville**—Paving Pine, Chestnut and Maple Sts., to Morgan & Bock, Olean, $73,497. Noted April 20.

**N. Y., Fulton**—G. W. Hackett, comr. Pub. Wks. improving streets, to Louie Constr. Co., Meriden, Conn., $176,912. Noted April 27.

**N. Y., Herkimer**—Herkimer Co. completing Welsh Bush Rd., to F. Gallo, 207 South Bellinger St., $64,817.

**N. Y., Long Island City**—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., paving Bodine St., to F. J. Clancy, Corona, $15,675; grading, curbing and laying sidewalks on William St., to Welsh Bros. Contg. Co., 32 Queens St., $8,297; Nurge St., to Tuohey & Upton, Inc., 129 Bway., Flushing, $2,118. Noted May 4.

**N. Y., Mayville**—Bd. Supervs. Chautauqua Co., will construct 1.94 mi. Cassadaga-County Hospital Rd., $67,641; 1.27 mi. Nione-State Line Rd., Part 3, $32,250; 4.5 mi. Smith Mills-South Dayton Rd., $134,855; 4.8 mi. Panama-Niobe Rd., Part 2, $126,440; 5.46 mi. Sherman-Findley Lake Rd., Part 2, $201,005; 3.94 mi. Van Buren-Point Brocton Rd., Part 3, $116,545; 2.87 mi. Sinclairville-Charlotte Center Rd., $84,617; 1.93 mi. Railroad St., in Sinclairville, $30,014, by day labor under supervision of W. J. Knauer, Roberts Bldg., Jamestown, co. supt.

**N. Y., Norwich**—Paving West Park Pl., East Main and Court Sts., to Griffin & Griffin, Norwich, $27,880. Noted April 20.

**N. Y., Schenectady**—Bd. Contract & Supply, resurfacing various streets, asphalt wearing surface with binder, to W. P. McDonld Constr. Co., John St., $1.35 per yd. Noted May 4.

**N. Y., Troy**—Rensselaer Co. fireproofing Troy-Waterford Bridge over Hudson River, to Holler La Due Corp., 17 Steuben St., Albany, $19,361. Noted April 20.

**N. Y., Yates**—Will pave 1.7 mi. road, 16 ft., concrete, by day labor. $26,000.

**New Jersey**—State Hy. Comn., Trenton, bituminous concrete shoulders on each side of present concrete pavement Route 4, Sects. 1 and 1-A from south of Navesink River to Middletown, Monmouth Co., 1,620 ton bituminous concrete, to Municipal Constr. Co., U. C. N. B. Bldg., Utica, $24,024. Noted April 13.

**N. J., Secaucus**—Hudson Co. (Jersey City), pavng ¼ mi. Newark Turnpike-approaches to bridge over Lackawanna Ry., here, granite block on concrete, to Stillman, Delehanty & Ferris Co., 29 Exch. Pl., Jersey City, $68,327. Noted May 4 under "Union Hill, N. J."

**N. J., Somerville**—Paving State Highway Route 9, Sect. 7, Main St., to J. L. Blackman, Edgar Rd., Linden, 96.7% engineers estimate ($77,594). Noted April 20.

**N. J., Trenton**—Mercer Co. furnishing and applying 143,773 gal. tar, 1,483 ton slag 4,010 ton pebbles and 1,030 ton sand on about 68 mi. roads, also 60,394 gal. asphalt oil for surface treatment, 95,046 gal. asphalt for penetration work, 631 ton slag, 2,185 ton pebbles, etc., on about 31½ mi. roads, to T. Tobish, Amer. Mechanic Bldg., $33,474 and $26,036 respectively.

**Pennsylvania**—State Hy. Dept., Harrisburg, 15,560 ft. Application 1856, Cornplanter Twp., Venango Co., to H. P. Streicher Co. Inc., 319 Terminal Bldg., Toledo, O., $120,213; 18,045 ft. Route 165, Applications 1665 and 1666, Hamilton and Ross Twps., Monroe Co., to Bethlehem Eng. & Contg. Co., 307 Wilbur Trust Bldg., Bethlehem, $126,362; 32,167 ft. Route 218, Application 1827, Irwin and Clinton Twps., Venango Co., to L. H. Young Contg. Co. and Russell Bros., West Austintown, O., $284,531; 30,726 ft. Route 312, Application 1750, Pine, Wolf Creek and Worth Twps., Mercer Co., to Garvey-Weyenberg Constr. Co., 807 College Ave., Appleton, Wis., $189,368; 30,012 ft. Route 89, Sect. 3, East Mead and Randolph Twps., Crawford Co., to F. L. Cohen Inc., Prudential Bldg., Buffalo, N. Y., $233,384; 4,085 ft. Route 234, Coalport Boro., Clearfield Co., to T. J. Strickler, 508 Church St., Huntington, $37,816; 11,923 ft. Route 276, Bigler Twp., Clearfield Co., to Standard Constr. Co. 1003 18th St., Altoona, $86,510; 2,990 ft. Application 254, Center Twp., Beaver Co., to G. S. White Co., Jenkins Arcade, Pittsburgh, $28,954; 16,074 ft. Application 1724, Bradford Twp., Clearfield Co., to Johnson & Kearns, DuBois, $118,849; 12,953 ft. Application 1751, Delaware and Fredonia Twps., and Route 238, Application 1753, Hickory Twp., Mercer Co., to W. S. Morrison, New Brighton, $78,681 and $44,251 respectively. Noted March 30.

**Pennsylvania**—State Hy. Dept., Harrisburg, Route 90, Application 1828, Venango Co., to Seiple-Wolf Constr. Co., 707 Wick Bldg., Youngstown, O., $80,390; Route 208, Application 1752, Mercer Co., to Jamieson & Narlee, Fredonia, $29,718; Route 60, Sect. 2 Jefferson Co., to H. W. Horst Co., Horst Bldg., Rock Island, Ill., $269,391; Route 214, Clarion Co., to R. V. Baldwin, 1364 4th Ave., Coraopolis, $121,291; Route 207, Sect. 2, Crawford Co., to R. D. Baker Co., 1454 Penobscot Bldg., Detroit, $318,519; Route 218 Sect. 2, Application 1829, Venango Co., to L. H. Young Contg. Co. and Russell Bros., West Austintown, O., $309,425; Route 91, Sect. 3, Application 1826, Venango Co., to G. S. White Co., Jenkins Arcade, Pittsburgh, $212,146; Route 207, Sect. 2, Venango Co., to S. Gamble Co., Glass St., Carnegie $148,477; Route 279, Application 1811, Warren Co., to F. W. Knickenberg, 702 Michigan Ave., Buffalo, N. Y., $139,819; Application 1846, Warren Co., to Sheffield Concrete Co., Sheffield, $14,335; Route 250, York Co., to McInerney & McNeal, Inc., 702 Northampton Natl. Bank Bldg., Easton, $152,063; Routes 333 and 230, York Co., to Bethlehem Eng. & Contg. Co., 307 Wilbur Trust Bldg., Bethlehem, $88,474 and $173,067 respectively; Route 295, Erie Co. and Route 89, Sect. 2, Crawford and Venango Counties, to C. H. Fry Constr. Co., 609 West 19th St., Erie, $49,759 and $272,426 respectively; Route 234, Woodward Twp. and Route 234, Houtzdale Boro., Clearfield Co., to R. J. Delong, 129 West 4th St., Williamsport, $53,083 and $38,501 respectively. Noted April [illegible]

**Pa., Erie**—Paving 19th, Wallace and Ash Sts., asphalt, to J. and M. Doyle Co., Erie, $20,362; 11th and Cranberry Sts., asphalt, to Mayer Bros. Constr. Co., Erie, $19,511.

**Pa., Greenville**—Paving various streets, brick on concrete, to A. J. Moore, Greenville, $40,000.

**Pa., Grove City**—Paving College and Stewart Aves., oil asphalt, Grace St. and Barmore Ave., brick and asphalt, also Liberty St. asphalt and brick, to Allegheny Paving Co., c/o E. Walters, pres., Grove City, $21,069 and $23,480 respectively.

**W. Va., Bridgeport**—Paving 1¼ mi. various streets, to N. M. Leigh, Mannington, $43,000. Noted April 13.

**W. Va., Grafton**—Taylor Co., to Monongahela Constr. Co., Fairmont, paving with brick, asphalt filler on concrete, 13,300 lin. ft. Main St., 7,500 cu.yd. excav., 37,000 sq. yd. brick pavement to be removed, 38,700 sq.yd. sand cement cushion, 6,710 sq.yd. concrete base, 38,700 sq.yd. surfacing, 22,000 lin.ft. concrete curb etc., $162,916, 3,690 lin.ft. Beech and Walnut Sts., 2,000 cu.yd. excav., 11,700 sq.yd. brick pavement to be removed, 11,700 sq.yd. surfacing, 11,700 sq. yd. sand cement cushion, 1,950 cu.yd. concrete base, etc., $48,201, paving with bituminous macadam 2.43 mi. Knottsville Rd., Project C, $65,734, 2 mi. Knottsville Rd., Project B, $48,093, 2.1 mi. Wendell Rd., $45,510, 2.35 mi. Astor Rd., $49,734, 1,940 lin.ft. Knottsville Rd., Project A, $13,466; to Kennedy Constr. Co., Parkersburg, paving with concrete 2.1 mi. Flemington-Rosemont Rd., $58,244, 3.15 mi. Brydon-Flemington Rd., $83,688, 2.42 mi. Webster Brydon Rd., $69,771; to D. M. Flynn, Grafton, surfacing with bituminous macadam 4.16 mi. Wickwire Rd., $77,299. Noted April 13.

**North Carolina**—State Hy. Comn., Raleigh, grading and rein.-con. paving 7.52 mi. State Project 629, Catawba Co., and 7.1 mi. State Project 647, Lincoln Co., to A. L. Harris, Dillsboro, $220,177 and $209,909 respectively; grading and surfacing with waterbound macadam and two-course gravel 8.87 mi. State Project 990, Transylvania Co., to S. L. Davis Constr. Co., Greensboro, $93,263. Noted May 11.

**N. C., Waynesville**—Haywood Co. Highway Comn., to Wilson Constr. Co., Rutherfordton, grading and concrete paving 4.27 mi. road between Waynesville and Dellwood, $112,000; 4.53 mi. between Canton and Woodrow, $116,000. Noted April 6.

**Fla., Jacksonville**—To F. W. Long & Co., Realty Bldg., paving with oil asphalt on 6 in. concrete, vitr. brick guttering and granite curbing Margaret St., 7,648 sq.yd. asphaltic concrete, etc., $33,482, Hogan St., 5,864 sq.yd. asphaltic concrete, etc., $27,994, King St., 5,425 sq.yd. asphaltic concrete, etc., $24,765; paving with vitr. brick on sand, vitr. brick guttering and granite curbing 1st St., 358 sq.yd. vitr. brick, etc., $1,236; paving with vitr. brick on 6 in concrete, granite curbing Adams St., 10,800 sq.yd. vitr. brick, on 6 in. concrete, etc., $56,667. Noted April 20.

**Fla., Tavares**—Comrs. Lake Co., surfacing 19 mi. Altoona-Astor Rd., 10 mi. with shell, compacted depth of 6 in., and 9 mi. with sand clay compacted to depth of 8 in., to Lake Co. Constr. Co., Leesburg, $117,500. Noted April 6.

**Fla., West Palm Beach**—Comrs. Palm Beach Co., constructing 20 mi. road from West Palm Beach Canal to Belle Glade, conglomerate (marl, rock and shell), to T. Bryan, Ft. Lauderdale, $190,000.

**Alabama**—State Hy. Dept., Montgomery, grading and gravel surfacing 8.23 mi. highway from Uriah to Monroeville, Monroe Co., to Alabama Constr. Co., Bell Bldg., Montgomery, $34,405; grading and chert surfacing 13.63 mi. highway from Kellyton-Goodwater-Ashland and Goodwater to Sylcauga, Coosa and Tallapoosa Counties, to Finnell Co., Tuscaloosa, $159,437. Noted May 11.

**Miss., Yazoo City**—Yazoo Co. gravel surfacing 7.149 mi. various roads, to W. Owens and B. H. Boss, Jackson, $67,221.

**Louisiana**—State Hy. Dept., New Orleans, road work on Shreveport-Natchitoches Highway, Red River Parish, to Hogsett & Co., East Point, $49,200; Bossier City-Ninock and Bossier City-Minden Highways, Bossier Parish, to W. E. Geren, New Orleans, $10,500; Thibodaux - Lockport Highway, Lafourche Parish, and St. Joseph-Tallulah Highway, Tensas Parish, to S. A. Gano, Maison Blanche Bldg., New Orleans, $79,238 and $100,120 respectively; Arcadia Natchitoches Highway, Bienville Parish, to S. D. Carr Constr. Co., Leesville, $112,868; Alexandria-Columbia Highway, Rapides Parish, to Oneal Bros., Cheneyville, $11,003. Noted March 30 and April 13.

### Streets and Roads (Continued)

**Ohio**—Dept. Highways and Pub. Wks., Columbus, grading, bridging and paving roads in following counties: Geauga Co., Sect. "W-2" Chagrin Falls-Greenville Rd., 4.429 mi., rein.-con. strip two ft. wide to W. I. Thompson & Son, 5103 Euclid Ave., Cleveland, $14,916. Geauga Co., Sect. "V-2" and "W-1" Chagrin Falls-Greenville Rd., 4.946 mi., rein.-con. strip two ft. wide, to W. I. Thompson & Son, 5103 Euclid Ave., Cleveland, $16,846. Holmes Co., Sect. "I" Mansfield-Millersburg Rd., 2.49 mi., brick, to Griggs-Anderson Co., Millersburg, $57,956. Knox Co., Sect. "A" Mt. Vernon-Mansfield Rd., 1.98 mi., gravel to P. Ritter, Bellevue, $26,058. Knox Co., Sect. "State Sanatorium" State Sanatorium Rd., .734 mi., brick, to Henderson Bros., Chagrin Falls, $18,989. Noted May 11.

**Ohio**—Dept. Highways and Pub. Wks., Columbus, paving Painesville-Ravenna Rd., 42,643 sq.yd. concrete, to Post Constr. Co., 10823 Fairchild Ave., Cleveland, $106,908.

**O., Akron**—Dept. Pub. Serv., Bureau of Highways, to Columbus Asphalt Paving Co., 288 East 16th Ave., Columbus, improving South Maple St. from Madison Ave. to west corporation line, 20,000 cu.yd. grading, $0.40 per cu.yd., 18,480 sq.yd. sheet asphalt, plan B Mexican, $1.60, etc., total $96,964. Delia Ave. from Exchange St. to Madison Ave. and Bodine Court from Delia Ave. to south end, 2,100 cu.yd. grading $0.50, 4,360 sq.yd. sheet asphalt, plan B Mexican, $1.65, etc., $21,264, Salome Ave. from Howard to Aberdeen Sts., 850 cu.yd. grading, $0.60, 1,640 sq.yd. sheet asphalt, plan B Mexican, $1.70, etc., $9,634, Casterton Ave. from end of pavement to Metz Ave. and Metz Ave. from Merriman Rd. to Highland Ave., 2,500 cu.yd. grading, $0.50, 2,930 sq.yd. sheet asphalt, Plan B Mexican, $1.65, etc., $16,485; to E. and W. McShaffrey Co., Rhoades Ave., Ruckel Rd., Newton and Pioneer Sts., 13,000 cu.yd. grading, $0.39, 17,770 sq.yd. standard brick asphalt fill on 6 in. base, etc., $1.90, $93,599; to H. Gilbert, Doyle Court from Doyle St. to Mt. Peace Cemetery, 600 cu.yd. grading, $0.50, 570 sq.yd. 1 course concrete, $2.40, etc., $2,357; to T. E. McShaffrey Constr. Co., Forge St., 5th Ave. from Arlington to Kelly Aves., 9,000 cu.yd. grading, $0.40, 8,800 sq.yd. sheet asphalt, Plan B Texaco, $1.60, etc., $45,070.

**O., Cleveland**—Comrs. Cuyahoga Co. grading and paving Bradley Rd., 24,900 sq. yd. concrete and 7,800 cu.yd. excav. to Ohio Eng. Co., Lorain, $103,664. Noted May 11.

**O., Cleveland**—Grading, curbing and paving Marquette St., to Burnett & Hathaway, Pavers Exch., Society for Savings Bldg., $12,269; Franklin Ave. from West 25th St. to Franklin Circle, to Bentley Bros., 1836 Euclid Ave., $19,492. Work involves 2,360 lin.ft. stone curb and 4 in. tile gutter, 1,900 cu.yd. earth excav., 44,152 sq.yd. vitr. brick on concrete.

**O., Columbus**—W. H. Duffy, dir. Pub. Serv., grading, curbing, laying water mains and paving 2nd alley west of Winner Ave. and 2nd alley west of 4th St., to Davies & Davies, Columbus, $2,311 and $3,317 respectively; alley north of Buttles Ave., and alley north of Tompkins St., to Yale Constr. Co., Columbus, $3,306 and $2,032 respectively; East Ave., to Knight & Wells, $7,599. Noted May 4.

**Ind., Angola**—Steuben Co., grading and gravel surfacing 66,552 ft. Pansell Rd., 14 ft., to Pinney & Sewell, Columbia City, $54,858.

**Ind., South Bend**—St. Joseph Co., grading and paving with crushed stone, 5.7 mi. Kern Rd., to Reed & Son, South Bend, $45,500; 15,840 ft. Quinn Rd., to McColley & Son, South Bend, $29,108; 6 mi. Pine Rd., to J. W. Reese & Co., South Bend, $77,847.

**Michigan**—State Hy. Dept., Lansing, grading and surfacing Federal Aid Project 49, Sect. B, Cass Co., to Kalamazoo Paving Co., Kalamazoo, incl. 20,157 cu.yd. excav., $0.50, 130.7 cu.yd. 1:2:4 concrete, $12, 72.9 cu.yd. 1:3:6 concrete, $11, 66,438 sq.yd. concrete pavement, $1.75, total $130,335. Noted April 13.

**Michigan**—State Hy. Dept., Lansing, grading and surfacing 8.626 mi. Federal Aid Project 54, Sect. C, Shiawassee Co., to G. A. Binley Co., Flint, 24,526 cu.yd. excav., $0.50, 229.9 cu.yd. 1:2:4, 152.8 cu.yd. 1:2½:5 and 374.8 cu.yd. 1:3:6 concrete, all $14, 1,844 cu.yd. gravel sub-base, $1.90, 90,983 sq.yd. concrete pavement, $1.28, total $165,456; 2.97 mi. Federal Aid Project 54, Sect A. Shiawassee Co., to G. A. Binley Co., Flint, 7,467 cu.yd. excav., $0.50, 61 cu.yd. 1:2:4 and 90.7 cu.yd. 1.3.6 concrete, $14, 31,368 sq.yd. concrete pavement, $1.268, total $46,199, tile for above job to Graham & Rood, Mason, $6.525. Noted April 6.

**Michigan**—State Hy. Dept., Lansing, surfacing 1.432 mi. State Trunk Line Rd. 12-39, Dickinson Co., 1,824 cu.yd. excav., 14,918 sq.yd. bituminous concrete, 1,014 cu.yd. waterbound macadam, to Manistique, Dray & Transfer Co., Manistique, $27,187.

**Mich., Ann Arbor**—Washtenaw Co. Rd. Comn., grading and gravel surfacing 5.89 mi. Bridgeport Rd., to Koch Constr. Co., Ann Arbor, $40,054.

**Mich., Petoskey**—Emmett Co. Rd. Comn. grading and gravel surfacing 11.11 mi. road in Levering and Cross Village, and 3.487 mi. Bear Creek Twp. Rd., to Scott, Cochran & Scott, Lansing, $93,500 and $33,500 respectively.

**Mich., Tawas City**—Iosco Co., grading and surfacing 6.972 mi. Assessment Dist. Rd. 3, gravel, to W. T. Hill, East Tawas, $68,502.

**Ill., Danville**—Vermilion Co., paving 15-D road, Sects. T, U, V, W, X and Y, to Osborn, Allen & Hegg, Covington, Ind., $53,471; Bishop & Curdie, Danville, $145,981; M. H. Lewis & Co., Hoopeston, $97,462. Noted April 6.

**Ill., Joliet**—Asphalt sidewalks on Center St. from Plainfield Ave. to Moran St., to J. V. McCarthy Co., Joliet, $47,866. Noted March 9.

**Ill., Waukegan**—Lake Co. paving Lake Villa-Antioch Rd., Sect. L, cement concrete, to G. R. Wade, 204 Lake Ave., Kenosha, Wis., $150,000.

**Wisconsin**—State Hy. Comn., Madison, grading, etc., Superior-Solon Springs Rd., Douglas Co., Project 113, to V. Nelson, 2002 Maryland Ave., Superior, $4,710; Meadow Creek Bridge on Rice Lake-Cameron Rd., Project 185, Barron Co., to Forsyth Constr. Co., Cameron, $2,961; Chetek-Barron Rd., Project 264, Barron Co., to Ord Co., Duluth, Minn., 82,066 cu.yd. earth excav., $0.235, 2,624 cu.yd. borrow $0.235, 107.75 cu.yd. concrete in culverts $17, etc., total $23,644. Noted May 4.

**Wis., Green Bay**—Paving 39,000 sq.yd. School, Oakland, Elmore, Shawano, Irwin and Jackson Sts., incl., 27,210 lin.ft. concrete curb and 27,210 lin.ft. gutter, 39,000 sq.yd. asphalt, to F. P. Caughlin, 30 North La Salle St., Chicago, $150,000. Noted April 13.

**Wis., Jefferson**—Jefferson Co. State Road and Bridge Com., Depot St. and Lake Mills Rd., to L. C. Christinson, Cambridge, 2,174 cu.yd. excav., $0.72, 7,546 sq.yd. concrete surfacing $1.19, etc., total $10,897; Waukesha County Line-Sullivan Rd., Sect. A, to Kramp Constr. Co. Berlin, 12,344 cu.yd. earth excav. $0.75, 29,302 sq.yd. concrete surfacing $1.22, etc., $50,346; Helenville-Jefferson Rd., Sect. C, to Peppard Burrill & Co., Minneapolis, Minn., 37,426 cu.yd. earth excav., $0.65, 84,965 sq.yd. concrete surfacing $1.23, etc., total $147,602. Noted April 20.

**Wis., Juneau**—Dodge Co. State Road and Bridge Com., Juneau-Columbus Rd., Appropriation 414, to L. Hansen Co., Green Bay, Sect. A, 32,063 cu.yd. earth excav. $0.70, 85,768 sq.yd. concrete surfacing $1.22, etc., total $147,306, Sect. B, 34,282 cu.yd. excav. $0.70, 72,883 sq.yd. concrete surfacing $1.23, etc., total $131,452; Iron Ridge-Horicon Rd. and Rubicon-Huilsburg Rd., to W. Lind, Clyman, $27,417 and $29,109 respectively.

**Wis., Port Washington**—Ozaukee Co. concrete surfacing, etc., 3.6 mi. Lake Shore Rd., to A. E. Retzlaff, 948 4th St., Milwaukee, $69,287. Noted April 27.

**Wis., Waukesha**—Waukesha Co. concrete surfacing, etc., 6.5 mi. Oconomowoc-Dousman Rd., State Trunk Highway 67, to Wilson Johnson Co., 807 College Ave., Appleton, $86,752; 1 mi. Dousman Rd., to R. L. Reisinger & Co., 464 Oakland Ave., Milwaukee, $15,233. Noted April 27.

**Ia., Carrol**—Carrol Co., grading 9.46 mi. Federal Aid Project 154, from here north to Sac County Line, to Peterson, Shirley & Gunther, Woodmen of World Bldg., Omaha, Neb., 75,649 cu.yd. excav., $0.225 per cu.yd.; to Glendon Brick and Tile Co., Menlo, 28,990 ft. 6 in. tile $0.106 per ft., 8,620 ft. 8 in. $0.16 and 1,000 ft. 10 in. $0.23. Noted April 27.

**Ia., Elkader**—Clayton Co., grading 14 mi. Federal Aid Project 156, between here and Strawberry Point, to T. Carey & Sons, 509 Youngerman Bldg., Des Moines, 198,897 cu.yd. earth excav. $0.245 per cu.yd., 17,783 cu.yd. loose rock $0.49, 33,798 cu.yd. solid rock $1.25, 210 cu.yd. riprap in place $1 per cu.yd.; 7.48 mi. Primary Rd. Project 70 from Garnavillo southeast, to Hysham & Carns, South Omaha, Neb., 47,332 cu.yd. earth excav. $0.27 per cu.yd., 31,050 cu.yd. earth $0.26, loose rock $0.70 and solid rock $2.25. Noted April 27.

**Ia., Garner**—Hancock Co., grading Wilson Highway, north and south of here, Federal Aid Project 139, 9.202 mi. from North Iowa Pike north, 101,000 cu.yd. excav., to Kughn & Son, Dows, $0.19 per cu.yd.; 7.017 mi. from Klemme south, 91,751 cu.yd. excav., to Wisely & Son, Sheffield, Ill., at $0.234 per cu.yd.

**Minn., Preston**—For 8,000 sq.yd. brick and concrete pavement, to Ullon Constr. Co., Rochester. $32,000.

**Minn., St. Paul**—Ramsey Co., paving 2.6 mi. New Brighton Rd. from Snelling Ave. to west town line, gravel on sub-grade, to Fielding & Shepley, 216 University Ave., $64,252. Noted May 4.

**Minn., St. Paul**—Widening Robert St. from Central Ave. to University Ave. and University Ave. from Robert St. to Park Ave., incl. grading, walls, slopes, buildings, sewers, water mains, surfacing, removing and resetting curb on unpaved streets, to Thornton Bros. Co., 304 Central Bank Bldg., St. Paul, $59,887. April 13.

**Kan., Hoisington**—For 15,000 yd. brick or concrete pavement, to Stainey Mackey Constr. Co., Hutchinson, $50,000.

**N. D., Carrington**—Foster Co., gravel surfacing 10 mi. road east from here, to Homan-Webster & Son, Turtle Creek, $24,782.

**N. D., Crosby**—Divide Co., grading 12 mi. Fortuna Rd., to Druhl & Kemper, Minot, $32,740; 8 in. Northern Highway, to R. E. Knowlton & Son, Bowbells, $11,460.

**N. D., Fessenden**—Wells Co., 10 mi. Federal Aid Project 90, incl. 72,680 cu.yd. excav., to C. M. Padgett, Leeds, $27,866.

**N. D., Napoleon**—C. Kaz, aud. Logan Co., 16 mi. State Highway east of here, incl. 8 acres clearing and grubbing, 115,484 cu.yd. excav., etc., to J. Herr, Ashley, $44,000. Noted April 27.

**Montana**—State Hy. Dept., Helena, concrete paving 3 blocks Bell St. and 3 blocks Merrill Ave. to McGuire & Blakeslee, Great Falls, 3,164 cu.yd. excav., $0.80, 23,300 sta. yd. overhaul $0.04, 16,691 sq.yd. concrete paving $2.49, 51,470 lb. No. 27 triangular wire mesh $0.06, 450 lin.ft. concrete curb and gutter, $1.25, etc., total $50,219 plus 10% for engineering and contingencies, $55,241. Noted April 27.

**Missouri**—State Hy. Dept. at div. office, Butler, 5.142 mi. road from Butler, eastward and westward, State Aid Project 20.151, Bates Co., to C. T. Fogle, Jefferson City, $17,883. Noted May 4.

**Missouri**—State Hy. Dept. at div. office, Moberly, 1.549 mi. road from Moberly to Huntsville, Federal Aid Project 186, Randolph Co., to Lynch-McDonald Constr. Co., Moberly, $56,441. Noted May 4.

**Missouri**—State Hy. Dept. at div. office, Oregon, 7.351 mi. road northward, southward, eastward and westward through Holt Co., State Aid Project 20.37, Holt Co., to Allison-Dillingham, St. Joseph, $29,758. Noted May 4.

**Ark., Harrisburg**—Poinsett Co. paving 9.85 mi. road, plain concrete, to Hansen Constr. Co., Blytheville, $258,877.

**Tex., Brownsville**—Cameron Co. paving 0.6 mi. State Highway 12 from city limits to Elizabeth and Stinger Sts., etc., 1,265 cu.yd. earth excav., 7,474 sq.yd. pavement, 19,513 lb. reinforcing, to Dodds & Wedegartner, San Benito, $26,554.

**Tex., Johnson City**—Blanco Co. grading and bridging 7.5 mi. State Highway 46 north from Comal Co., to Holt & Ruby, Johnson City, $30,551. Noted April 20.

**Tex., Marlin**—See "Dam."

**Col., Sterling**—Paving 29,000 sq.yd. Paving Dist. 2, to Strang-Maguire Constr. Co., Utah Savings and Trust Bldg., Salt Lake City, Utah, $92,000. Pipe and gravel to be furnished by city. Noted March 23.

**Utah**—State Hy. Dept., Salt Lake City, grading and gravel surfacing 12.56 mi. road from Marysvale to Red Bridge, Piute Co., to A. G. Young & Co., Richfield, $62,606; paving with 6-8 in. concrete, 6.65 mi. road from Smithfield to cross roads, Cache Co., to O. Nelson, Arimo Bldg., Logan, $211,894.

**Nevada**—State Hy. Dept., Carson City, grading, gravel surfacing and building structures on 10.8 mi. state highway, Humboldt 1-D, from point 5 mi. west of Valmy to East county line, to Kroft & Bundy, Ogden, Utah, $45,718.

**Cal., Martinez**—Contra Costa Co., constructing highway, Div. 31, to E. E. O'Brien, Martinez, $95,857; highway Div. 4-11-2, and constructing shoulders on highway Div. 18, to Hutchinson Co., Hutchinson Bldg., Oakland, $20,844 and $16,692 respectively. Noted April 20.

**Cal., Monterey**—Grading and paving with 4 in. concrete and 2 in. bituminous surface Franklin St. between Alvarado and High Sts., grading, curbing and paving with 5 in. concrete Franklin St. between Hyde and Cedar Sts., to Grant-Smith Co., Balboa Bldg., San Francisco, $75,131. Noted May 4.

**Cal., Oakdale**—Improving various streets, 112,560 sq.ft. 1½ in. Warrenite on bituminous, 52,600 sq.ft. grading and tolling, concrete curbs, gutters and sidewalks, to A.

Streets and Roads (Continued)

Teichert & Sons, Ochsner Bldg., Sacramento, $33,000. Noted March 16.

**Cal., San Luis Obispo**—Supervs. San Luis Obispo Co., grading portions San Luis Obispo-Cambria Rd., Sect. C 2, Rd. 3, 30,000 cu.yd. excav., to J. L. Conner, Sacramento, $20,400. Noted March 16.

**Ont., Greenfield**—Kenyon Twp. improving River de Lisle, to O'Shea & McDonnell, Alexandria, 27,502 earth excav., $0.27, 15,290 cu.yd. hardpan, $1. 1,278 cu.yd. rock excav., $2.30, 1,115 cu.yd. concrete $16.80, grading $0.80. Noted May 4.

**Ont., St. Thomas**—To Standard Paving Co., Elgin St., Ottawa, 12,000 sq.yd. asphalt pavement, $1.985 per sq.yd., concrete base, $1.49.

**Ont., Windsor**—For 2 mi. concrete pavement on Dougall Rd., to Premier Constr. Co., Windsor. $75,000. Prices wanted on materials.

## Industrial Works

### PROPOSED WORK

**N. Y., New York**—H. Weprin, c/o V. Mayper, archt. and engr., 15 East 40th St., having plans prepared 2 story, 100 x 100 ft., brick, steel and concrete garage, plain foundation, 412 East 55th St. $50,000.

**N. Y., Rochester**—Duntile Products Co., Holland, Mich., plans tile manufacturing plant, Lexington Ave., here. $40,000-$50,000.

**Pa., Marianville**—Marianville Glass Mfg. Co. plans to rebuild plant recently destroyed by fire. $55,000. Architect not announced.

**Pa., Phila.**—Central Constr. & Supply Co., 2220 Arch St., soon takes bids 1 and 2 story, 228 x 350 ft. plant, 53rd and Florence Sts. $80,000. Private plans.

**N. C., Charlotte**—Textile Mill Supply Co., 51 South College St., having plans prepared by Lockwood & Green, archts., Charlotte, 3 story, 140 x 150 ft., mill supply building and warehouse, concrete, steel and mill. $60,000.

**O., Canton**—Hygienic Products Co., 715 Walnut Ave. S. E., had plans prepared by Lockwood Greene & Co., archts., Hanna Bldg., Cleveland, 2 story, 50 x 70 ft., brick and timber factory, plain foundation. $40,000.

**O., Cleveland**—Standard Envelope Co., 1011 Oregon Ave., having plans prepared by Christian, Schwartzenberg & Gaede, archts., 1900 Euclid Ave., 1 story, brick and steel factory, plain foundation. $60,000.

**O., Cleveland**—S. W. Wyman, 402 Engineers Bldg., plans 2 story, brick and steel factory and mercantile building, Pittsburgh Ave. $50,000. Architect not selected.

**O., Cleveland**—G. W. Walters Transfer Co., 476 East 115th St., plans 1 story, 50 x 80 ft., brick and timber garage and warehouse, plain foundation, 887 East 140th St. $40,000. Private plans.

**Ill., Chicago**—Levy & Klein, archts., 111 West Washington St., soon receive bids 2 story, 150 x 150 ft. garage and office, rein.-con., brick and steel, 5238 North Clark St. $150,000. Owner's name withheld.

**Wis., Madison**—Madison Gas and Electric Co., 120 East Main St., having plans prepared 2 story, 60 x 110 ft. electric service station and garage, rein.-con., brick and steel, Main St. $45,000. Private plans.

**Wis., Madison**—Natl. Vacuum Street Sweeper Co., c/o S. Mowry, secy. Assn. of Commerce, Cantwell Bldg., plans 4 story, 60 x 120 ft. brick, rein.-con. and steel factory. $60,000. Architect not selected.

**Wis., Plymouth**—Central Garage Co. plans 1 story, 54 x 120 ft. brick, rein.-con. and steel garage and repair shop, Division St. $50,000. C. C. Arndt, secy. Architect not selected.

**Wis., Rosholt**—J. Wiza, Polonia, plans 2 story, 50 x 70 ft. brick, rein.-con. and steel garage and repair shop, Main St., here. $45,000. Architect not selected.

**Wis., Truesdale**—Truesdale Canning Co., c/o F. Mischler, Pres., 78 Main St., Kenosha, having preliminary plans prepared by G. H. Leipold, archt., 160 Martin St., Milwaukee, 2 story, brick and timber cannery. $50,000-$60,000.

**Minn., Winona**—Pepin Packing Co., having plans prepared by A. H. Husemann, archt., 614 9th Ave. W., Winona, 1 story, 72 x 180 ft. brick and concrete addition. $50,000.

**Neb., Alliance**—Chicago, Burlington & Quincy R.R., 547 West Jackson Blvd., Chicago, plans 48 x 60 ft. power plant. W. T. Krausch, Engr. of Buildings.

**Neb., McCook**—Chicago, Burlington & Quincy R.R., 547 West Jackson Blvd., Chicago, plans 48 x 60 ft. power plant. W. T. Krausch, Engr. of Buildings.

**Okla., Pawnee**—Takes bids about June 9, improving electric light plant. $65,000 bonds voted. Benham Eng. Co., Firestone Bldg., Kansas City, Mo., consult. engrs.

**Cal. Emeryville**—Peck & Hill Furniture Co., Hubbard & Park Sts., Oakland, having plans prepared by A. C. Martin, archt., Higgins Bldg., Los Angeles, 3 story, 100 x 150 ft., brick and concrete warehouse.

**Cal., Sacramento**—Consumers Ice and Cold Storage Co., 8th and D Sts., having plans prepared by W. C. Phillips Co., archts., 311 California St., San Francisco, repairing plant recently destroyed by fire. $50,000.

**Cal., San Francisco**—D. Ghiradelli Co., North Point St. between Larkin and Polk Sts., had plans prepared by W. Mooser, archt., Nevada Bank Bldg., 2 story addition to warehouse, brick and steel, North Point St. $58,000.

**Que., Montreal East**—Hockelaga Cement Co. Ltd., soon takes bids plant, 2,500 bbl. daily capacity.

**Ont., Kingston**—Provincial Government Dept. Agriculture, Toronto, having plans prepared for 2 story dairy school here. $90,000.

**Ont., Niagara Falls**—Hydro Electric Comn. of Ontario, Niagara Falls, plans installing 5 additional generating units at Queenston power station, to give from 250,000 to 300,000 hp.

**Ont., Windsor**—Shell Oil Co., 3608 Notre Dame St. E., Montreal, Que., having plans prepared for plant and large storage tanks, Caron Ave., $100,000. Private plans.

### BIDS DESIRED

**R. I., Shannock**—Lockwood, Greene & Co., archts. and engrs., 60 Federal St., Boston, taking bids 1 story, 45 x 100 ft. brick and timber weave shed, 1 story 50 x 105 ft. finishing building, and 1 story, 17 x 45 ft. brick boiler house, for Columbia Narrow Fabric Co., Shannock. $60,000.

**Conn., Hartford**—Capitol City Glass Co., Chapel St., taking bids 2 story, 40 x 150 ft. brick and timber addition to factory. $40,000. F. C. Walz, 407 Trumbull St., archt.

**N. Y., Brooklyn**—May 26, by G. A. Whalen, comr. Plant & Structures, Municipal Bldg., New York, housing station for Dept. Street Cleaning, on 19th Ave. between 55th and 58th Sts., here.

**N. Y., New York**—Niewenhous Co., 316 East 161st St., 2 story, 60 x 185 ft., brick, steel and concrete garage, plain foundation, 3rd Ave. and 160th St. $40,000. Work will be done by separate contracts.

**Pa., Altoona**—May 29, by Confederated Home Abattoirs Corp., 216 Commerce Bldg., 4 story, 81 x 163 ft. plant, 2 story, 47 x 57 ft. stock pens, and 40 x 60 ft. power plant, rein.-con., brick and steel, plain foundation, Sugar Run Rd. $125,000. Gorman-Brown Eng. Co. Boston, archts. C. Stadler, 40 Rector St., New York, engrs.

**Pa., Phila.**—R. W. Barnes, archt., 10 South 18th St., receiving bids 1 story, 94 x 180 ft. brick and steel garage, plain foundation, Bellfield Ave. and Courtland St., for S. H. Marvel, 1607 Hunting Park Ave. $50,000.

**Pa., Phila.**—W. E. S. Dyer, engr., Land Title Bldg., receiving bids 5 story, 61 x 64 ft. rein.-con. brick and steel plant, plain foundation, Venice St. and Green Lane, for Kaufman Plush Co., Venice St. and Green Lane. $80,000.

**Pa., Wissinoming** (Phila. P. O.)—C. Wunder, archt., 1415 Locust St., Phila., receiving bids 2 story, 35 x 50 ft. and 1 story, 48 x 234 ft. brick and steel factory, plain foundation, here, for Natl. Ammonia Co., Van Kirk Ave. $50,000.

**W. Va., Parkersburg**—Seward Wire Co., receiving bids 1 story, 60 x 80 x 200 ft. factory. $200,000. T. J. Seward, 17 West 42nd St., New York, pres. and mgr.

**O., Cleveland**—Lockwood Greene & Co., engrs. and archts., Hanna Bldg., taking bids 4 story, 80 x 140 ft., brick and steel factory, plain foundation, East 40th St. along tracks of New York Central R.R., for Billings-Chapin Co., 1163 East 40th St. $200,000. Noted Nov. 10.

**O., Cleveland**—W. H. Nicklas, archt., 1900 Euclid Ave., taking bids and opens same about May 23, 1 story, 40 x 120 ft., brick and steel garage, here, for A. Szabo, 1603 Woodward Ave., Lakewood. $40,000.

**Wis., Madison**—M. P. Schneider, archt., 401 West Doty St., taking bids 1 story, 50 x 110 ft. brick and rein.-con. filling station, Gilman St., for North Wisconsin Oil Co. $45,000. G. Mayer, Menasha, mgr.

**Minn., Moorhead**—May 24, by Moorhead Storage & Transfer Co., c/o L. Wright, Moorhead, 4 story, 100 x 200 ft. brick and concrete warehouse. $100,000. J. H. Hess, Moorhead, archt.

### CONTRACTS AWARDED

**N. H., Keene**—See "Buildings."

**R. I., Olneyville**—Rochambeau Worsted Co., 3 story, 100 x 300 ft. brick and timber plant, plain foundation, to O. D. Purington & Co., Ind. Trust Bldg., Providence. $250,000.

**Conn., Waterbury**—Connecticut Light & Power Co., Lakeville St., 4 story, 60 x 133 ft. garage and storage plant, brick and steel, plain foundation, Freight St., by day labor. $100,000. Noted May 4.

**N. Y., New York**—New York Wet Wash Co., 732 East 144th St., 3 story, brick and concrete laundry, plain foundation, Concord Ave. and 144th St., to G. A. Zimmerman, 18 East 41st St., $100,000.

**Pa., Erie**—Erie Metal Furniture Co., 1 story, 120 x 200 ft. brick and steel factory, to H. Shenk Co., Erie. About $40,000. Noted April 27.

**Pa., Phila.**—Baltimore & Ohio R.R., Baltimore and Charles Sts., Baltimore, Md., 8 story, 102 x 182 ft. rein.-con. warehouse, 24th and Walnut Sts., here, to Turner Constr. Co., 1713 Sansom St. Noted April 27.

**Pa., Phila.**—Berger Bros., 231 Arch St., 5 story, 38 x 52 ft. rein.-con. and brick warehouse, plain foundation, 233-235 Arch St., to F. L. Hoover & Sons, 1023 Cherry St., $40,000.

**Pa., Phila.**—Hoffman-Henon Co., archts., Finance Bldg., 8 story, 78 x 120 ft. rein.-con. and brick warehouse, plain foundation, Delaware Ave. and Pine St., to Turner Constr. Co., 1713 Sanson St., for G. H. Earl, Jr., 113 South 3rd St. $250,000. Noted March 23.

**Pa., Phila.**—C. Zeisloft, 1 story, 100 x 117 ft. garage, rein.-con., brick and steel, Ridge Ave. and Lyceum St., to Brown Constr. Co., 105 Leverington St., $60,000. Noted Feb. 23.

**Md., Port Covington** (Baltimore P. O.)—Western Maryland Ry., Hillen Sta., Baltimore, concrete and steel locomotive repair shops, here, to M. A. Long Co., Bldg. op. E. Biddle extd., Baltimore.

**O., Cleveland**—Industrial Fibre Co., West 98th St. and Walford Rd., 2 story, 41 x 99 ft., brick, steel and concrete factory, plain foundation, to J. Woide, 1659 East 86th St. Noted May 4.

**O., Cleveland**—Natl. Bronze & Aluminum Co., East 88th St. and Laisy Ave., 1 story, 20 x 150 ft., brick and concrete factory addition, to H. K. Ferguson Co., 6523 Euclid Ave., $40,000.

**Ind., Indianapolis**—Central Public Warehouse Co., 110 South Alabama St., 4 story, 108 x 450 ft., concrete and steel warehouse, Kentucky Ave., to Latham & Walters, State Life Bldg. $200,000.

**Mich., Detroit**—Curtis Co., Lafayette Blvd., 2 and 3 story, rein.-con. and brick plant and office, plain foundation, West Grand and Hamilton Blvds., to H. G. Christman Co., 315 Stevens Bldg., $125,000.

**Wis., Green Bay**—W. J. McGinnis, 338 South Adams St., 1 and 2 story, garage, repair shop and filling station, brick and rein.-con., plain foundation, North Adams St., to H. J. Selmer Co., McCartney Bank Bldg., $45,000.

**Wis., Madison**—W. F. Clark, 2105 Keyes Ave., 1 story, 60 x 186 ft., garage, repair shop and filling station, rein.-con., brick and steel, plain foundation, University Ave., to Willis & Deason, Hayes Blk., Janesville, $40,000. Noted April 27.

**Wis., Madison**—Madison Gas & Electric Co., 120 East Main St., 1 story, 50 x 65 ft. power and generating plant, rein.-con., brick and steel, plain foundation, Main St., to J. H. Findorff Son, 601 West Wilson St. Noted April 6.

**Wis., Milwaukee**—Lincoln Warehouse & Van Co., 226 4th St., 6 story, 120 x 160 ft., rein.-con. and brick warehouse, plain foundation, 3rd and Prairie Sts., to T. Stark & Co., 130 Muskego Ave. $300,000. Noted March 30.

**Wis., Prairie du Chien**—Prairie du Chien Woolen Mill Co. 3 story, 47 x 186 ft., brick and concrete addition general contract to Pehrson Bros., 555 Temple Court, Minneapolis, $34,450; structural steel, to Worden-Allen Co., Port Washington Rd., Milwaukee. Noted May 4.

**Wis., Racine**—S. C. Johnson & Son Co., 1012 16th St., 3 story, 60 x 162 ft., brick, rein.-con. and steel, factory, plain foundation, 15th St., to A. C. Koppel, 526 Wisconsin St. $70,000.

**Wis., River Falls**—Bd. Normal School Regents, Capitol Bldg., Madison, 1 story, 50 x 95 ft. power and heating plant, brick, rein.-con. and steel, plain foundation, at State Normal School, here, to McManis & Farnoski, 484 Endicott Ave., St. Paul, Minn. $60,000. Noted April 27.

Industrial Works (Continued)

**Wis., Whitewater** — Bd. Normal School Regents, Capitol Bldg., Madison, 1 story, 50 x 85 ft. power and heating plant, brick, rein.-con. and steel, plain foundation, at State Normal School, here, to Bonnett Constr. Co., 808 South Pierce St., Milwaukee. Noted April 27.

**Minn., Mankato**—Mankato Co-operative Dairy Assn., 2 story, 50 x 122 ft. creamery, rein.-con. and brick, to J. B. Nelson & Co., Mankato, $37,419. Noted April 20.

**Cal., Fresno**—J. B. Hill, 1648 H St., 2 story, rein.-con. warehouse, H St., to R. Trost, 26th and Howard Sts., San Francisco, $40,000. A. Meister Sons Co., North Sacramento, lessee.

**Cal., Hanford**—Hanford Ice Co., West 6th St., 60 ton ice plant, Phillips St., to Trewhitt-Shields Co., Rowell Bldg., Fresno, $75,000.

**Cal., Oakland**—A. B. Saroni & Grocers Investment Co., c/o R. V. Woods, archts., Federal Realty Bldg., 2 story, brick warehouse, 4th and Harrison Sts., to H. Christiansen, Federal Realty Bldg., $40,000.

**Cal., Sacramento**—Breuner Co., 604 K St., 5 story, warehouse, N St. between 6 and 7th Sts., to Betz & Mabrey, Ochsner Bldg., Sacramento, $124,867. Noted May 4.

**Ont., Windsor**—Canadian Pacific Ry., London, enlarging yards and building 1 and 2 story, 125 x 800 ft. brick and concrete freight terminal, Caron Ave., here, to J. Hayman & Sons, 432 Wellington St., London, $220,000. Noted Feb. 16.

# Buildings

## PROPOSED WORK

**N. Y., Albany — Schools** — Bd. Estimate and Apportionment and Bd. Educ. soon take bids repair work for entire school system. $500,000. J. G. Brennan, city engr.

**N. Y., Brooklyn**—School—Bd. Educ., 500 Park Ave., New York, plans addition to P. S. 16, Wilson St. near Bedford Ave., brick, steel and stone, plain foundation, here. $543,360. C. B. J. Snyder, Municipal Bldg., New York, archt. and engr.

**N. Y., Brooklyn**—Schools—Bd. Educ., 500 Park Ave., New York, plans New Utrecht High School, 79th St. and 17th Ave., $2,500,000; P. S. 189, East 97th St. and East New York Ave., $750,000; P. S. 161, Crown St. and New York Ave., $1,000,000, all brick, steel and stone, plain foundations. C. B. J. Snyder, Municipal Bldg., New York, archt. and engr.

**N. Y., New York**—Apartment Hotel—J. Axelrod & Son are head of syndicate which is having sketches made by G. F. Pelham, archt. and engr., 200 West 72nd St., 15 story, 90 x 100 ft., brick, steel and stone, plain foundation, 114-122 East 52nd St. $1,500,000.

**N. Y., New York**—Exchange—New York Telephone Co., 15 Dey St., soon takes bids 2 story, 115 x 205 ft., brick, steel and stone, plain foundation, East 97th St., $375,000; 12 story, brick, steel and stone addition plain foundation, 36th St. between 8th and 7th Aves., $1,200,000. McKenzie, Voorhies & Gmelin, 342 Madison Ave., archts. and engrs.

**N. Y., Niagara Falls** — Exposition — Niagara Falls International Exposition, Lafayette Bldg., Buffalo, having plans prepared by R. B. Williamson, archt., 405 Bway., Milwaukee, Wis., 90 buildings. $30,000,000-$40,000,000.

**N. Y., Richmond Hill** (Jamaica, P. O.)—School—Bd. Educ., 500 Park Ave., New York, plans P. S. 70, brick, steel and stone, plain foundation, 12th and 13th Aves. near Grand Ave., here. $850,000. C. B. J. Snyder, Municipal Bldg., New York, archt. and engr.

**N. J., Newark**—Office—Federal Drug Co., 1108 Broad St., having plans prepared by F. Grad, archt. and engr., 245 Springfield Ave., 8 story, 50 x 75 ft., brick, steel and stone addition, plain foundation, 1012 Broad St. $350,000.

**N. J., Nutley**—School—Bd. Educ. having preliminary plans prepared by C. G. Jones, archt. and engr., 280 Bway., New York, brick, steel and stone, plain foundation. $300,000.

**Pa., Lancaster** — High Schools — Bd. Educ. plans to vote on $1,250,000 bonds for building and equipping 2 junior high schools. Architect not announced.

**Pa., Phila.**—Church—Methodist Episcopal Church, c/o G. Tevey, pastor, 2225 North Mascher St., soon takes bids 1½ story, 97 x 100 ft. brick, steel and stone, plain foundation, Norris Sq. $180,000. N. Hulme, 1524 Chestnut St., archt.

**Pa., Phila.** — Office — C. E. Oelschlager, archt., 1615 Walnut St., soon takes bids 18 story, brick and stone, 16th and Walnut Sts. $1,500,000. Owners name withheld.

**Pa., Phillipsburg**—Hospital—G. S. Idell, archt., 1705 Chestnut St., soon receives bids 4 story, 66 x 150 ft. brick and steel, plain foundation, for Cottage State Hospital. $250,000.

**Pa., Pittsburgh**—Church, etc.—Smithfield St. Methodist Episcopal Church, 7th and Smithfield Sts. $600,000.

**Va., Portsmouth**—Office—City and Norfolk Co. plan 8 story, brick, steel and concrete, containing auditorium with 2,000 seating capacity, official offices and courthouse. $800,000. J. P. Jervey, city mgr. Architect not selected.

**Va., Roanoke**—High School—Bd. Educ. plans 3 story. $250,000. H. C. Richards, 608 Chestnut St., Phila., archt. Noted April 20.

**W. Va., Charleston** — Lodge — Elkana Lodge 63, Knights of Pythias, having plans prepared by H. S. Kyle, archt., Union Bank Bldg., 6 story, 51 x 124 ft., Dunbar and Quarrier Sts. $200,000.

**W. Va., Huntington** — Market — C. L. Ritter and A. B. Hyman, having plans prepared by P. A. Booth & Co., archts., Deegans Bldg., 2 story, L shape, 40 x 50 ft. and 80 x 160 ft., brick, rein.-con. and steel, 4th Ave. and 7th St. $150,000.

**W. Va., Morgantown**—Chemical Laboratory—P. A. Davis, archt., 1713 Samson St., Phila., preparing plans 4 story, 79 x 255 ft. with 2 story, 50 x 66 ft. wing, rein.-con. and brick, on University Grounds. $400,000.

**N. C., Raleigh**—College—Meredith Baptist College, North Blount St., plans college on outskirts of city. To exceed $1,000,000. C. E. Brewer, pres. Architect not selected.

**Fla., Haines City**—Hotel—I. Van Horn and associates having plans prepared by

### DAM—COLUMBUS, OHIO

Bids were opened by W. H. Duffy, dir. Pub. Serv., Apr. 20, (Engineer's Estimate and lowest three bidders), for O'Shaughnessy Dam in Sciota River, including bridge 15 mi. north of Columbus, from (A) Engineer's Estimate; (B) Columbus Constr. Co., Clinton Bldg.; (C) Thompson-Starrett Co., 51 Wall St., New York City; (D) J. F. Casey Co., Union Ave., Pittsburgh. The unit bids were as follows:

| | A | B | C | D |
|---|---|---|---|---|
| 23,000 cu.yd. earth excavation | $1.25 | $ .80 | $1.80 | $1.35 |
| 65,000 cu.yd. rock excavation | 3.25 | 1.95 | 1.80 | 2.00 |
| 13,700 cu.yd. excavation below El. 782 | 4.00 | 3.74 | 1.80 | 3.20 |
| 1,350 cu.yd. rock excavation in cut-off trench | 7.00 | 4.84 | 12.00 | 8.00 |
| 10,800 cu.yd. embankment for earth dikes | 1.00 | 1.10 | 1.00 | .42 |
| 20,500 cu.yd. embankment for highways | .50 | .67 | .58 | .52 |
| 160 cu.yd. cinder fill | 2.50 | 2.80 | 2.00 | 1.50 |
| 800 cu.yd. placing loam | 1.00 | 1.50 | 2.00 | 1.20 |
| 1 acre seeding | 100.00 | 150.00 | 500.00 | 220.00 |
| Maintenance of relocated highway (lump sum) | 800.00 | 2,640.00 | 5,000.00 | 6,000.00 |
| 200 cu. yd. broken stone or gravel backing | 2.00 | 1.59 | 1.50 | 2.00 |
| 1,200 cu.yd. stone paving | 6.50 | 7.50 | 3.50 | 3.30 |
| 300 lin.ft. drilling holes | 1.50 | .26 | 1.00 | .25 |
| 60,000 cu.yd. concrete, class A (1-3-6 cyclopean) | 9.50 | 5.92 | 6.35 | 8.60 |
| 1,900 cu.yd. concrete, class B (1-2½-5) | 13.50 | 13.78 | 13.00 | 11.15 |
| 17,500 cu.yd. concrete, class C (1-2-4) | 13.50 | 9.72 | 14.00 | 10.20 |
| 3,500 cu.yd. concrete, class D (1-2-4) | 19.00 | 15.51 | 21.00 | 15.20 |
| 32 cu.yd. concrete, class E (1-2-4) | 30.00 | 19.50 | 40.00 | 30.00 |
| 1,890 lin.ft. concrete guard rails | 1.50 | 1.10 | 1.50 | 1.50 |
| 1,550 sq.yd. surfacing with granolithic finish | 1.25 | 1.93 | 1.40 | 1.35 |
| 390 sq.yd. nalecode nailing concrete | 2.50 | 2.03 | 1.40 | 1.00 |
| 150 cu.yd. grout | 20.00 | 22.81 | 25.00 | 20.00 |
| 500,000 lb. steel reinforcement bars | .045 | .035 | .04 | .03 |
| 122 tons cast iron water pipe | 60.00 | 67.62 | 100.00 | 76.50 |
| 21 tons flange special castings | 140.00 | 204.98 | 230.00 | 220.00 |
| 8 tons c.i. soil pipe | 40.00 | 106.50 | 95.00 | 140.00 |
| 1.5 tons c.i. soil pipe fittings | 100.00 | 149.80 | 130.00 | 300.00 |
| 200 lin.ft. w.s. pipe 2 in. and less | 1.00 | .365 | 1.00 | .30 |
| 4,500 lb. galvanized w. s. sockets | .125 | .09 | .12 | .12 |
| 2,200 lin.ft. electric conduits | .80 | .338 | .40 | .35 |
| 4–30 in. x 60 in. sluice gates | 1,500.00 | 1,343.50 | 1,050.00 | 1,400.00 |
| 6–36 in. x 60 in. sluice gates | 1,200.00 | 1,001.00 | 800.00 | 1,000.00 |
| 90,000 lb. iron castings | .08 | .084 | .08 | .08 |
| 5,000 lb. w. s. floor plates | .09 | .175 | .08 | .08 |
| 15,000 lb. miscellaneous steel work | .10 | .09 | .08 | .08 |
| 1,100 lb. copper | .80 | .58 | .40 | .30 |
| Stop planks (lump sum) | 1,200.00 | 2,433.00 | 900.00 | 1,350.00 |
| Crane (lump sum) | 1,500.00 | 1,540.00 | 1,600.00 | 1,800.00 |
| Steel roof trusses (lump sum) | 2,500.00 | 1,589.00 | 1,000.00 | 1,650.00 |
| Cut stone masonry for gate houses (lump sum) | 4,500.00 | 19,930.00 | 16,500.00 | 20,000.00 |
| Cut stone masonry balustrade (lump sum) | 25,000.00 | 24,405.00 | 28,000.00 | 35,000.00 |
| Brick masonry (lump sum) | 3,600.00 | 6,900.00 | 5,400.00 | 7,475.00 |
| Roofing and sheet metal work (lump sum) | 3,000.00 | 2,783.00 | 2,300.00 | 2,650.00 |
| Doors and windows (lump sum) | 3,000.00 | 5,511.00 | 3,700.00 | 5,600.00 |
| 3,000 lin.ft. wooden guard rails | .60 | .73 | .85 | .50 |
| 6,400 sq.yd. waterbound macadam surfacing | 1.00 | .58 | .80 | .75 |
| 4,800 sq.yd. bituminous macadam surfacing | 1.50 | .93 | 1.50 | 1.15 |
| 1,960 sq.yd. vitrified brick pavement | 3.50 | 2.84 | 2.50 | 2.50 |
| Engineer's office and equipment (lump sum) | 3,200.00 | 6,200.00 | 8,000.00 | 6,000.00 |
| Electric lighting plant and pump outfit (lump sum) | 900.00 | 1,235.00 | 850.00 | 860.00 |
| 75 lin.ft. drilling well | 2.00 | 2.60 | .04 | 2.00 |
| Bronze tablets (lump sum) | 350.00 | 761.80 | 300.00 | 475.00 |
| Extended totals | $1,375,300 | $1,001,616 | $1,115,119 | $1,173,257 |

Bids were opened by W. H. Duffy, dir. Pub. Serv., Apr. 20, for O'Shaughnessy Dam in Sciota River, including bridge 15 mi. north of Columbus (items 2, 14 and 16), from (A) Engineer's Estimate; (B) Columbus Constr. Co., Clinton Bldg.; (C) Thompson-Starrett Co., 51 Wall St., New York; (D) J. F. Casey Co., Union Ave., Pittsburgh; (E) Lake Erie Constr. Co., Cleveland; (F) Hickey Bros., Columbus; (G) Mellon-Stuart Co., Pittsburgh; (H) Walbridge-Aldinger Co., Detroit, Mich.; (I) H. P. Converse & Co., Boston; (J) Dravo Contg. Co., Pittsburgh; (K) J. O. Heyworth, Chicago; (L) Boxley Bros. Co., Huntington, W. Va.; (M) Hardaway Contg. Co., Columbus, Ga. The unit bids were as follows:

| | A | B | C | D | E | F | G | H | I | J | K | L | M |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 65,000 cu.yd. rock excavation | $3.25 | $1.95 | $1.80 | $2.00 | $2.70 | $1.90 | $1.68 | $2.50 | $3.07 | $3.50 | $3.40 | $2.45 | $2.50 |
| 60,000 cu.yd. concrete, class A (1-3-6 cyclopean) | 9.50 | 5.92 | 6.35 | 8.60 | 6.65 | 8.00 | 8.70 | 8.50 | 5.77 | 8.00 | 10.80 | 11.50 | 11.00 |
| 17,500 cu.yd. concrete, class C (1-2-4) | 13.50 | 9.72 | 14.00 | 10.20 | 11.00 | 12.50 | 12.10 | 14.00 | 17.08 | 15.00 | 11.60 | 14.50 | 15.50 |
| | $1,375,300 | $1,100,616 | $1,115,119 | $1,173,257 | $1,206,340 | $1,250,184 | $1,349,550 | $1,369,059 | $1,398,846 | $1,407,935 | $1,475,666 | $1,519,072 | $1,548,690 |

*Lowest bidder refused to accept contract claiming an error in his bid. New bids will be opened May 25.

Buildings (Continued)

B. C. Bonfoey, archt., 12 Petteway Bldg., Tampa, 2½ story, concrete and tile. $150,000.

**Fla., St. Petersburg**—Hotel—S. Lund had plans prepared by Jonesboro, Ritchie & Taylor, archts., St. Petersburg, 5 story, concrete and tile. $500,000.

**La., Bossier City**—High School—City sold $150,000 bonds for new high school.

**Tenn., Clarksville**—Schools—Voted $150,000 for school buildings. A. J. Smith, supt.

**O., Berea**—Dormitory and Science—Baldwin-Wallace College plans 3 story, brick, steel and concrete. $500,000. J. C. Martin, treas. Architect not selected.

**O., Cambridge**—High School—Bd. Educ. had plans prepared by F. L. Packard, archt., New Hayden Bldg., Columbus, 2 story, brick and concrete. $200,000.

**O., Canton**—Church—Lowell Reformed Church, c/o O. P. Foust, pastor, 127 Arlington Ave., having plans prepared by C. W. Bolton & Sons, archts., Witherspoon Bldg., Phila., and soon takes bids 2½ story, cut stone. $200,000.

**O. Cleveland**—Churches and Schools—Catholic Diocese of Cleveland, c/o J. Schrembs, bishop, East 9th St. and Superior Ave., plans twenty-five 2 story, brick, steel and concrete, various sections. $10,000,000. Architect not selected.

**O., Cleveland**—Commercial—P. A. Frye, Williamson Bldg., plans converting theatre at 740 Huron Rd. into commercial building also plans 2 story, brick, steel and concrete addition. $200,000. Architects name withheld.

**O., Cleveland**—Office—Medical Center Co., c/o L. Abrams, 540 Engineers Bldg., having plans prepared by W. S. Ferguson Co., archts., 1900 Euclid Ave., 11 story, 100 x 165 ft., brick, steel, tile and concrete, 1001 Huron Rd. $600,000.

**O., Columbus**—Hall—Knights of Columbus, 6th and State Sts., had revised plans prepared by Richards, McCarty & Bulford, archts., 584 East Broad St., 5 story, 120 x 130 ft., brick. steel and concrete. $500,000.

**O., Columbus**—High School—Bd. Educ. High and Town Sts., rescinded contract for Washington Gladden School, 2 story, brick, concrete and stone, along Scioto River. Will readvertise. Noted May 11.

**O., Conneaut**—High School—Bd. Educ. having revised plans prepared by Bartholomew, McCullough & Smith, archts., Ferguson Bldg., Pittsburgh, Pa., 1 story, 250 x 300 ft., brick, stone or terra cotta, Mill, Sandusky, Adams and Jackson Sts. $300,000. Noted March 16.

**O., Lakewood** (Cleveland P. O.)—High School—Election in November to vote on $700,000 bonds for 3 story Junior High School, brick, steel and concrete, south of Detroit Ave. C. W. Hopkinson, Rose Bldg., Cleveland, archt.

**O. Lakewood** (Cleveland P. O.)—Library—Lakewood Library Bd., 15423 Detroit Ave., plans 2 story, brick, steel and concrete, Detroit Ave. $150,000. R. Irgham, librarian. Architect not selected.

**O., Westerville**—High School—Bd. Educ. soon takes bids 2 story, 140 x 140 ft., brick and concrete. $150,000. Glass & Austin, Gas Co. Bldg., Columbus, archts. Noted Jan. 26.

**O., Wickliffe**—School—Bd. Educ. having plans prepared by Knox & Elliot, archts., Engineers Bldg., Cleveland, 2 story, 12 room, brick, steel and concrete. $150,000.

**Ind., Wabash**—School—Bd. Educ. plans 2 story, brick. $250,000. Kopf & Wooling, Pythian Bldg., Indianapolis, archts.

**Mich., Ann Arbor**—Law—University of Michigan Law School having plans prepared for 3 story, rein.-con., brick, steel and stone, plain foundation, South University Ave. and State St. $2,000,000. Architect's name withheld.

**Mich., Detroit**—Clubhouse—Detroit Federation of Musicians, c/o Madison & Hubbell, archts., 415 South Washington St., Royal Oak, having plans prepared for 10 story, rein.-con., brick and steel, plain foundation Macomb St. $300,000.

**Ill., Chicago**—Apartment—R. T. Davis, c/o R. F. France, archt., 155 North Clark St., having plans prepared 12 story, 100 x 109 ft., Delaware Pl. and Seneca St. $1,500,000.

**Ill., Evanston**—Apartment—Holabird & Roche, archts., 104 South Michigan Ave., Chicago, soon receive bids 7 story, 88 x 180 ft. rein.-con., brick and steel, Hinman and Grove Ave., for W. Walter, Hinman and Grove Ave. $700,000.

**Ill., Chicago**—Apartment—D. S. Klafter, archt., 64 West Randolph St., soon receives bids 3 story, 150 x 250 ft., rein.-con., brick and steel, Pratt Blvd. between Ashland and Clark Sts., for W. Perlman, c/o architect. $400,000.

**Ill., Chicago**—Bank—W. G. Uffendell, archt., 39 South State St., soon receives bids 8 story, 65 x 115 ft., rein.-con., brick and steel, Stony Island Ave. and 68th St., for Stony Island Trust and Savings Bank, 6822 Stony Island Ave. $500,000.

**Ill., Chicago**—Church and Office—Immanuel Baptist Church, Michigan Ave. and 24th St., plans 4 story, rein.-con., brick and steel. $225,000. N. M. Dunning, 310 South Wabash Ave., archt.

**Ill., Chicago**—Hotel—Rapp & Rapp, archts., 190 North State St., soon receive bids 12 story, 180 x 360 ft., 56th St. and Cornell Ave., for Windemere Hotel Co., 56th St. and Cornell Ave. $3,000,000. Noted April 27.

**Ill., Chicago**—Office—Chicago-Clark Bldg. Corp., c/o A. S. Carruthers & Co., Chicago Ave. and Clark St., having plans prepared by Shankland & Pingrey, archts., 209 South La Salle St., remodeling 6 story, 125 x 150 ft., rein.-con., brick and steel, Chicago Ave. and Clark St. $300,000.

**Ill., Chicago**—Office—Rapp & Rapp, archts., 190 North State St., soon receive bids 2 story, 81 x 170 ft., rein.-con., brick and steel, 1327-33 Wabash Ave., for J. R. Little c/o architects. $150,000.

**Ill., Chicago**—Apartment—Holabird & Roche, archts., 104 South Michigan Ave., soon receive bids 4 story, 75 x 150 ft., rein.-con., brick and steel, 66-70 East Elm St. $225,000. Owner's name withheld.

**Wis., Appleton**—Church and Sunday School—First Methodist Congregation c/o J. Holmes, 737 Lawrence St., plans brick and stone. $250,000. May build on unit basis. Childs & Smith, 64 East Van Buren St., Chicago, archts.

**Wis., Janesville**—Theatre—Saxe Amusement Enterprises, 156 5th St., had revised plans prepared by M. Tullgren & Sons, archts. and engrs., 425 East Water St., Milwaukee, 2 story, 84 x 198 ft., brick, concrete and tile, plain foundation, West Milwaukee St. $150,000.

**Wis., Kenosha**—Church and School—St. Marks Congregation, c/o J. Angline, 1026 Sheridan Rd., plans brick and tile, plain foundation. $200,000. Architect not selected.

**Wis., Kenosha**—Hotel—Hotel Maywood, 274 Main St., (S. Schwartz, 888 Sheridan Rd., Waukegan, Ill., new proprieter), had plans prepared and soon takes bids 4 story, 66 x 126 ft., brick, concrete and steel, plain foundation, Main St. M. Tullgren & Sons, 425 East Water St., Milwaukee, archts. L. Hunt, 445 Milwaukee St., Milwaukee, associate archt.

**Wis., Madison**—Theatre—Fischer Paramount Theatres, Inc., plans 75 x 210 ft. rein.-con., brick and steel, plain foundation. $300,000. F. W. Fischer, 7218 Coles Ave., Chicago, mgr. Architect not selected.

**Wis., Milwaukee**—Store—Gimbel Bros., 3 Grand Ave., plan 8 story addition, brick, steel and concrete, plain and wood pile foundation. H. J. Esser, 82 Wisconsin St., archt.

**Wis., Racine**—School—Bd. Industrial Educ. takes bids early in June, 3 story, 187 x 220 ft. vocational school, brick and rein.-con., plain foundation. $200,000. J. M. Matson, Janes Bldg., archt.

**Wis., Superior**—High School—Bd. Educ. having plans prepared by F. E. Johnson, archt. and engr., 25 Wisconsin Blvd., and takes bids about June 1, 3 story, 150 x 250 ft., rein.-con., brick and tile, St. John St. between West 5th and 6th Sts. $200,000.

**Wis., West Bend**—High School—School Dist. No. 1 plans 3 story, brick, concrete and tile. $180,000. Foeller, Schober & Stephenson, Nicollet Bldg., Green Bay, archts.

**Minn., Duluth**—Store and Office—Duluth Theatre Co., c/o W. Prindle & Co., Lonsdale Bldg., having plans prepared by Geoman & Jenssen, archts. and engrs., Exch. Bldg., 3 story, 75 x 200 ft., rein.-con., brick and steel 1st St. and 2nd Ave. W. $200,000.

**Minn., Hibbing**—Theatre—Iron Range Theatre Co. plans 2 story, 75 x 140 ft. rein.-con., brick and steel. $300,000. W. J. Rezac, 123 Center St., mgr. Architect and engineer not selected.

**Kan., Wichita**—Convent—St. Johns Institute, West Side, having plans prepared by L. Schmidt & Co., archts., Wichita, 3 story. $175,000.

**N. D., Fargo**—School—Bd. Educ. having plans prepared by Keith & Kurke, archts., Equity Bldg., 2 story, rein.-con., brick, tile and stone, 16th St. and 3rd Ave. S. $150,000.

**Mo., St. Louis**—Mercantile—J. J. Foster, 410 Washington Ave., having plans prepared by Helfensteller, Hirsch & Watson, archts., 1003 Chemical Bldg., 5 story, 16 x 75 ft., steel, brick and concrete.

**Tex., Amarillo**—Hospital—Potter Co. having sketches made by G. A. Carlander, archt., Amarillo, 2 story, rein.-con., brick, tile and steel. $250,000. Noted May 11.

**Cal., Alameda**—High School—Alameda High School Dist., having preliminary plans prepared by C. Werner, archt., Humboldt Bank Bldg., San Francisco, for high school. $150,000.

**Cal., Colton**—School—Bd. Educ. having plans prepared by Allison & Allison, archts., 1405 Hibernian Bldg., Los Angeles, for school, (4 buildings.) $220,000.

**Cal., Glendale**—High School—Voted $600,000 bonds to construct high school, to serve district including Glendale, Eagle Rock, Tejunga, La Crescenta and Monte Vista.

**Cal., Los Angeles**—Theatre—F. E. Keller & C. H. Thompson, c/o B. O. McCormick, archt., 912 Pantages Bldg., having plans prepared 100 x 150 ft., brick, steel and concrete, Yucca St. and Hollywood Blvd. $300,000.

**Cal., San Francisco**—High School—City and San Francisco Co., having preliminary plans prepared by J. Reid, Jr., archt., 1st Natl. Bank Bldg., for high school, 18th and Dolores Sts. $350,000-$500,000.

**Cal., San Francisco**—Market—W. Houghteling, et al., c/o Weeks & Day, archts., Phelan Bldg., having plans prepared 1 story, 185 x 175 x 185 ft., brick and concrete, 8th, Mission and Market Sts. $500,000.

**Cal., San Francsco**—Theatre—Market St. Realty Co., c/o Portola Theatre, Market and 4th St., having plans prepared by A. H. Jacobs, archt., 110 Sutter St., rebuilding theatre, Market and 4th Sts. $150,000.

**Cal., Stockton**—Auditorium—City having plans prepared by L. S. Stone, Belding Bldg., W. J. Wright, Bank of Italy Bldg. and G. Allen, 37 South Aurora Sts., archts., for auditorium, on block bounded by Commerce, Oak, Fremont and Center Sts. $600,000. Noted May 11.

**Cal., Turlock**—High School—Turlock High School Dist. having preliminary plans prepared by W. H. Weeks, archt., 369 Pine St., San Francisco, 2 story, brick. $175,000.

**Que., St. Anselin**—School—Catholic School Comrs., 87 St. Catherine St., Montreal, soon takes bids for school and sisters residence, Forsyth St., here, $156,000 and $45,000 respectively.

**Que., St. Clothilde**—School—Catholic School Comrs., 87 St. Catherine St., Montreal, soon takes bids for school and sisters residence here. $186,000.

**Que., St. Zotique**—School—Catholic School Comrs., 87 St. Catherine St., Montreal, soon takes bids for school here. $156,000.

**Que., Westmount**—City Hall—City plans 2 story, 45 x 150 ft. with 1 story wings, Argyle St. and Cote St. Catherine Rd. $150,000. P. E. Jarman, 21 Stanton St., city engr. R. and F. R. Findlay, 416 Phillips Pl., Montreal, archts.

**Ont., Bridgeburg**—City Hall and Municipal—Having plans prepared by C. M. Borter, archt., 102 Main St., Niagara Falls, new city hall and municipal building. $350,000.

**Ont., Chatham**—School—Having plans prepared by C. H. Fuller, engr., Harrison Hall, for technical school. $250,000. Prices wanted on all materials.

**Ont., Ford**—School—School Bd. having plans prepared by A. H. McPhail, archt., 36 London St., Windsor, and receives bids end of May, brick school, Charlotte St. $150,000.

**Ont., Galt**—School—School Bd. plans technical and vocational school. $300,000. Prices wanted on materials and equipment. Architect not selected.

**Ont., St.) Catherine**—School—Bd. Educ. plans vocational school and collegiate institute, on Riordan site. $600,000. Architect not announced.

### BIDS DESIRED

**Conn., Hartford**—Church—Our Lady of Sorrows Roman Catholic Church, 85 New Park Ave., taking bids 1 story, 70 x 170 ft. brick, granite, steel and concrete, plain foundation, New Park Ave. and Grace St. $200,000. O'Connell & Shaw, 18 Boylston St., Boston, archts.

**N. Y., New York**—Apartment—Schroeder & Koppel, c/o Schwartz & Gross, archts. and engrs., 347 5th Ave., 6 story, brick, steel and stone, plain foundation, West 97th St. $350,000. Work will be done by separate contracts.

**N. Y., New York**—Apartment Hotel—Van Rensalaer Estates, Inc., c/o Schwartz & Gross, archts. and engrs., 347 5th Ave., 14 story, brick, steel and stone, plain foundation, Bway. and 91st St. Work will be done by separate contracts under supervision of architects.

**N. Y., Solvay** (Syracuse P. O.)—School May 31, by Bd. Educ., Union Free School Dist. 2, Geddes, addition to Boyd School. To exceed $150,000. M. L. King, 601 Snow Bldg., Syracuse, archt. Noted Dec. 15.

**N. J., Bridgeton**—Hotel—Dreher, Churchman & Paul, archts., Otis Bldg., Phila., taking bids 5 story, 44 x 117 ft. with 46 x 73 ft. wing, granite, rein.-con., brick and steel, plain foundation, Commerce and Pearl Sts., here, for Bridgeton Hotel Co. Noted Feb. 9.

### Buildings (Continued)

**N. J., Rutherford** — Bank — Rutherford Natl. Bank taking bids and opens same about June 2, brick and stone, plain foundation, Park Ave. $175,000. T. M. James Co., 342 Madison Ave., New York, archts. and engrs. Noted April 27.

**N. J., Verona**—High School—May 25, by Bd. Educ., brick, steel and stone. $200,000. Guilbert & Betelle, 2 Lombardi St., Newark, archts. and engrs.

**Pa., Coraopolis** — Bank — Ohio Valley Natl. Bank taking bids 2 story, rein.-con. and steel, 5th Ave. and Mill St. $150,000. A. Kahn, Marquette Bldg., Detroit, Mich., archt.

**Pa., New Kensington**—Bank—P. R. L. Hogner, archt., 2432 Oliver Bldg., Pittsburgh, receiving bids 3 story, 50 x 120 ft. addition, for Logan Trust Co., $250,000. Noted Feb. 9.

**Va., Winchester** — School — June 24, (change of date), by S. Bell and H. F. Byrd, building com., at Handley Library, constructing Handley School; adv. this issue.

**W. Va., Terra Alta**—High School—May 25, by Bd. Educ., 2 or 3 story, concrete, State St. and Cranesville Pike. $150,000. R. M. Bates, Cammock Watts Bldg., Huntington, archt.

**N. C., Greensboro**—School—June 8, by Bd. Educ., school, Cypress and Bessemer Aves. $200,000. Starrett & Van Vleck, 8 West 40th St., New York, archts. Noted May 4.

**N. C., Murfreesboro**—School—May 29, by J. R. Parker, city treas., school. W. N. Diehl, New Monroe Bldg., Norfolk, Va., archt.

**N. C., Raleigh**—High School—May 23, by T. B. Eldridge, chn. Raleigh Twp. school com., high school, brick. $350,000. F. Simpson, 110 East Lane St., archt.

**N. C., Winston-Salem**—High School—May 23, by Mayor, constructing Skyland High School, brick. $200,000. C. M. Crawford, Winston-Salem, supt. building construction.

**W. Va., Charleston**—Jail—May 26, by Warne, Tucker & Patterson, archts., Charleston, 3 story, 175 x 175 ft. stone addition Kanawha and Virginia Sts., for Comrs. Kanawha Co. $150,000.

**O., Cleveland** — Apartment — Portage Building Co., 201 Ulmer Bldg., taking bids and opens same about June 1, 3 story, 63 x 132 ft., brick and timber, plain foundation, East 101st St. and Woodward Court. $150,000. Best & Hoefler, 6523 Euclid Ave., archts. Noted May 4.

**O., Cleveland**—Bank—Pearl St. Savings & Loan Co. taking bids 2 story, 55 x 120 ft., brick, steel and concrete, 4153 Pearl Rd. $200,000. Hubbell & Benes, 4500 Euclid Ave., archts.

**O., Cleveland Heights** (Warrensville P. O.)—Apartment—A. Palevsky, 1450 East 105th St., Cleveland, taking bids and opens same about June 1, 4 story, 58 x 132 ft., brick and timber, plain foundation, Overlook Rd., here. $150,000. A. F. Janowitz, Permanent Bldg., Cleveland, archt.

**O., Marion**—Church—First Methodist Episcopal Church taking bids 1 story, 122 x 129 ft., brick, steel and concrete. $200,000. N. M. Dunning, 310 South Wabash St., Chicago, archt.

**O., North Ridgeville**—Church and Parish House—May 24, by J. E. Potter, archt., Prospect 4th Bldg., Cleveland, 1 and 2 story, 60 x 130 ft. and 38 x 56 ft., brick, steel and stone, plain foundation, here, for St. Peters Roman Catholic Church. $150,000.

**Mich., Detroit**—Apartment—H. T. Millar, archt., Lightner Bldg., receiving bids and opens same about May 25, 3 story, 94 x 100 ft. rein.-con., brick and steel, plain foundation, Cadillac and Jefferson Aves., for B. Fine, c/o architect. $175,000.

**Mich., Detroit**—School—May 23, by Business Mgr. Bd. Educ., 1354 Bway. Ave., 2 story, 115 x 140 ft. rein.-con., brick and steel, plain foundation, Canfield and Newport Sts. $175,000. Malcomson, Higginbotham & Palmer, 405 Moffatt Bldg., archts.

**Mich., Grand Rapids**—High School—May 25, by H. H. Morrill, business mgr. Bd. Educ., 3 story, rein.-con., brick and steel $250,000. Robinson & Campau, 715 Michigan Trust Bldg., archts.

**Mich., Roseville** (Halfway P. O.)—Schools—May 27, by F. H. Miller, secy. Bd. Educ., 2 story, 10 room, rein.-con., brick and steel, plain foundation, Linwood Ave. $150,000. A. Clubb, Goebel Bldg., Detroit, archt.

**Ill., Chicago**—Apartment—F. Campbell, c/o T. Bishop, archt., 35 South Dearborn St., receiving bids three 3 story, 120 x 125 ft. apartment, 68th St. and Merrill Ave. $500,000.

**Wis., Milwaukee**—Apartment—M. Tullgren & Sons, archts., 425 East Water St., receiving bids and open same about May 22, 3 story, 30 x 161 ft. brick, concrete and tile, plain foundation, Grand Ave., for J. P. Kalt, 130 Grand Ave. $150,000.

**Minn., Preston**—High School—May 25, by Bd. Educ., 2 story, rein.-con., brick and tile. $150,000. E. A. Highum, clk. Toltz, King & Day, 1410 Pioneer Bldg., Minneapolis, archts. Noted Feb. 23.

**Minn., Virginia**—Grade School—May 31, by H. Evans, clk., Bd. Educ., 3 story, 62 x 109 ft. rein.-con., brick and steel. $150,000. Kelly & Shefchik, Lonsdale Bldg., Duluth, archts. and engrs.

**Kan., Salina**—Memorial Hall—June 2, by C. E. Banker, city clk., brick and rein.-con., plain foundation. $225,000-$250,000. C. W. Shaver, Salina, archt. Noted Nov. 17.

**Col., Montrose**—Court House—June 1, by Comrs. Montrose Co., 4 story, 70 x 130 ft., rein.-con., tile and stone, plain foundation. $175,000. W. N. Bowman, Central Savings Bank Bldg., Denver, archt. Noted April 27.

**N. M., Santa Fe**—Capitol—May 24, by State Capitol Bd., 2 story, 65 x 192 ft., rein.-con., brick and steel, plain foundation. $250,000. Trost & Trost and G. P. Hill, Albuquerque, archts. and engrs.

**Cal., San Mateo**—Church—Congregational Church receiving bids rein.-con., Tilton Ave. $150,000. J. W. Plachek, 2014 Shattuck Ave., Berkeley, archt.

**Cal., San Mateo**—Schools—May 29, by Trustees of San Mateo School Dist., 2 schools, Popular Ave. $200,000. J. J. Donovan, Perry Bldg., Oakland, and S. Schnaittacher, 233 Post St., San Francisco, archts. Noted Jan. 26.

### CONTRACTS AWARDED

**N. H., Keene**—Hospital—Elliot Community Hospital, 3 story, brick, steel and concrete addition, plain foundation, and 1 story, brick and concrete boiler house, to Wiley & Foss, Central St., Fitchburg, Mass.

**Mass., Fall River** — Temple — Masonic Club of Fall River, 4 story, 72 x 140 ft. brick, concrete and steel, North Main and Elm Sts., to J. Crowe Co., 486 2nd St., Fall River. $225,000. Noted Nov. 17.

**Conn., New Britain**—School—Bd. Educ., State House, Hartford, 1 and 2 story, brick and rein.-con. main structure; also 1 story, boiler house, Camp St., here, to G. D. Kempe Constr. Co., 141 Summit Ave., West Hoboken, N. J., $502,000. Noted May 11.

**Conn., New Haven**—High School—Westville School Dist., 2 story, brick, steel and rein.-con., plain foundation, Fountain and Emerson Sts., to Larkin-Carey Co., 116 Brewery St. $174,742. Noted May 11.

**N. Y., Brooklyn**—Apartment—Finberg & Liebman Constr. Co., c/o Seelig & Finkelstein, archts. and engrs., 44 Court St., 4 story, brick, steel and stone, plain foundation, Ridge Blvd. and 70th St., by day labor. $150,000.

**N. Y., Brooklyn** — Court House — E. Riegelmann, boro pres., Boro Hall, court house, Snyder Ave., to W. L. and G. H. O'Shea, 29 Bway., New York, $147,900. Noted May 11.

**N. Y., Brooklyn**—School—St. Barbara's Roman Catholic Church, Central Ave. and Menahan St., 3 story, brick, steel and stone, plain foundation, to P. Cleary, 115 Marion St. Noted Feb. 23.

**N. Y., Glens Falls**—Club—Knights of Columbus, 2 story, 100 x 170 ft., general contract tapestry brick and stone, Warren and Center Sts., to C. P. Boland & Co., 30 4th St., Troy, $200,000.

**N. Y., New York**—Apartment—Nolovia Constr. Co., c/o R. Candela, archt. and engr., 200 West 72nd St., 9 story, 60 x 85 ft., brick, steel and stone, plain foundation, 602 West 89th St., by day labor. $300,000.

**N. Y., New York**—Apartment—One Twenty Nine West Washington Pl. Corp., 9 story, brick, steel and stone, plain foundation, 129-135 West Washington Pl., to Wykoff Eng. Co., 56 West 45th St. Noted April 27.

**N. Y., New York**—Apartment—Wacht Constr. Co., c/o J. M. Felson, archt. and engr., 1133 Bway., 9 story, brick, steel and stone, plain foundation, 13 West 11th St., by day labor. $600,000.

**N. Y., New York**—Apartment—W. C. Wykoff, 403 Madison Ave., 11 story, brick, steel and stone, plain foundation, Lexington Ave. and 73rd St., to J. Lowry, Jr., 171 Madison Ave., $1,250,000.

**N. Y., New York**—Loft—C. Fisher, 48 Cooper Sq., 12 story, 75 x 111 ft., brick, steel and stone, plain foundation, 56 Cooper Sq., to E. E. Paul Co., 101 Park Ave., $450,000.

**N. Y., New York**—Theatre—L. S. Bolognino, c/o Arena Theatre, 8th Ave. and 41st St., brick, steel and stone top addition, Brook Ave. and 137th St., to Stanold Co., 507 5th Ave., $350,000.

**N. J., Camden**—Bank—Federal Trust Co., 3 story, 71 x 80 ft., cut stone and marble, plain foundation, Broad and Federal Sts., to Freil McLeister Co., Inc., 2146 East Norris St., Phila., $150,000.

**N. J., Chatham**—School—Bd. Educ., brick, steel and stone, plain foundation, to Vought Constr. Co., Inc., 131 East 44th St., New York, $175,000. Noted April 6.

**Pa., Beatty**—Seminary—St. Vincents College, 6 story, 136 x 165 ft. seminary, to Duquesne Constr. Co., Bessemer Bldg., Pittsburgh, $150,000.

**Pa., Bethlehem**—School—G. I. Lovatt, archt., 416 Walnut St., Phila., 3 story, 63 x 114 ft. brick, steel and stone, plain foundation, to Garber & Cissell, Bethlehem, for St. Ursulas Roman Catholic Church, c/o J. P. Green. To exceed $150,000. Noted April 20.

**Pa., Cresson**—Chapel—Comes, Perry & McMullen, archts., Renshaw Bldg., Pittsburgh, 2 story, 40 x 115 ft. brick, steel and tile to Duquesne Constr. Co., Bessemer Bldg., Pittsburgh, for Mt. Aloysius Academy, here. $150,000. Noted April 6.

**Pa., Phila.**—Apartment—M. Kirschner, 4930 Brown St., will build 3 story, brick and steel, plain foundation, York Rd. and Abans St., by day labor. $200,000. Neubauer & Supowitz, 929 Chestnut St., archts.

**Pa., Phila.**—Loft—S. Y. Thompson, 312 Cherry St., 5 story, 80 x 120 ft. rein.-con. and brick, plain foundation, 1025-1035 Callowhill St., to Barclay-White Co., 1713 Sansom St.

**Pa., Phila.**—Office—Middle City Realty Co., Juniper and Walnut Sts., 17 story, 53 x 230 ft., Walnut and Juniper Sts., to M. R. Frank, 913 Harrison Bldg., $1,500,000.

**Pa., Phila.**—Store—N. Snellenburg & Co., 12th and Market Sts., improving and building 1 story addition, 12th and Market Sts., to W. Steele & Son, 16th and Arch Sts. $280,000.

**Pa., Pittsburgh**—Chapel and Crematory—Homewood Cemetery, 2 and 3 story, steel, stone and marble, Dallas and Alyesboro Sts., to E. Wehr, East End Savings and Trust Bldg., $300,000.

**Pa., Pittsburgh**—Y. M. C. A., Magee Bldg., c/o F. B. Skipp, secy., 15 story, 75 x 120 ft., Wood St., to Hughes-Foulkrod Co. Oliver Bldg., $700,000. Noted Feb. 9.

**Pa., Rankin**—School—Bd. Educ., 2 story, 37 x 40 x 90 ft. school to J. G. Fullman Co., East End Trust Bldg., Pittsburgh, $150,000. Noted April 20.

**Va., Suffolk**—High School—For 3 story, brick and concrete, plain foundation, to S. C. Curtis, Denbrah, $146,160. Noted May 4.

**N. C., High Point**—College—Methodist Protestant Church, 2 story, 51 x 180 ft., brick, Greensboro-High Point Rd., to J. L. Crouse, Greensboro, $150,000. Noted Nov. 3.

**Tenn., Memphis**—Club—Catholic Club, 5 story, 100 x 150 ft., rein.-con., containing gymnasium, pool, etc., on Adams and 3rd Sts., to Alexander Constr. Co., Front St., $268,932.

**Ky., Lexington**—Store—J. D. Purcell, 326 West Main St., 5 story, 80 x 220 ft., brick and steel, Main St., to Hendricks, Moore & Co., 417 Georgetown St.

**O., Cleveland**—Apartment—F. C. Newcomer, c/o G. B. Post & Son, archts., Hanna Annex Bldg., 3 story, 62 x 127 ft., brick, steel and concrete, Fairmount Blvd. and Cedar Rd., to Van Blarcom Co., Plymouth Bldg., $150,000.

**O., Cleveland**—Apartment—P. E. Robinson, archt., Hippodrome Bldg., 4 story, 43 x 226 ft., brick, steel and concrete, plain foundation, Fairchild Ave. near East 107th St., to A. A. Lane Constr. Co., 1869 East 55th St., for C. A. Hansen, c/o architect. Noted April 27.

**O., Cleveland**—Commercial and Market—J. C. Williams, 12431 Castlewood Ave., 2 story, 50 x 147 ft. and 80 x 88 ft., brick, steel and concrete, plain foundation, East 123rd St. and Superior Ave., to Bolton Pratt Constr. Co., Columbia Bldg. Noted April 13.

**O., North Canton** (Canton, P. O.)—Clubhouse and Auditorium—W. H. Hoover, pres. Hoover Suction Sweeper Co., 2 story, brick, steel and concrete, to Hunkin-Conkey Constr. Co., Century Bldg., Cleveland. $200,000. Noted March 30.

**O., Shaker Heights** (Cleveland, P. O.)—Schools—Bd. Educ., general contract to Parish Bros., 217 Wick Ave., Youngstown, 2 story, 132 x 153 ft., Norwood and Sussex Rds., $150,000, 2 story, 132 x 153 ft., Malvers and Falmouth Rds., $150,000. Both brick, steel and concrete. Noted March 23.

**Ind., Ft. Wayne**—Store—Weil Bros., 324 East Columbia St., 4 story, 30 x 140 ft., rein.-con. and brick, West Jefferson St., to H. Kaiser, 1728 Spy Run Blvd., $160,000. Noted Jan. 12.

**Ind., Hammond**—School—Bd. Educ. 2 story 80 x 417 ft. brick and concrete, to Bonner, Gohman & Meyers, Hammond, $200,000.

### Buildings (Continued)

**Ind., South Bend**—Hospital—Comrs. St. Joseph Co., 3 story, 100 x 190 ft., brick and concrete, to Kuehn & Jordon, 1717 Main St., $190,000. Noted April 6.

**Mich., Ann Arbor**—Gymnasium—Michigan Athletic Assn., receiving bids 1 story, 160 x 330 ft. gymnasium and field house, rein.-con., steel and brick, plain foundation, Ferry Field. Steel contract awarded to Whitehead & Kales Co., 2631 Beecher Ave., Detroit. Total $250,000. Noted April 27.

**Mich., Detroit**—School—Bd. Educ., 1354 Bway. Ave., 2 story, 85 x 130 ft. rein.-con., brick and steel, plain foundation, Nevada and St. Aubin Aves., to M. Bartholomaei Son & Co., 1574 Warren Ave., $150,000. Noted April 13.

**Mich., Grosse Isle**—School—R. S. Spencer, dir. Bd. Educ., 2 story, rein.-con., brick and steel, plain foundation, East River Rd., to Cooper-Widenmann Constr. Co., 1430 Penobscot Bldg., Detroit, $150,000. Noted March 9.

**Mich., Pontiac**—Bank and Office—Pontiac Commercial Savings Bank, North Saginaw St., 8 story, 60 x 145 ft. brick, steel, concrete and stone, plain foundation, North Saginaw St., to W. H. Isgrig & Son, Strand Theatre Bldg., $400,000. Noted Feb. 23.

**Ill., Chicago**—Apartment—T. O. Anders, 7401 Paxton Ave., 3 story, 100 x 170 ft., rein.-con., brick and steel, 5452-60 Cornell Ave., to Rune & Son, 6140 Rhodes Ave. $200,000.

**Ill., Evanston**—Apartment—L. G. Hallberg & Co., archts., 116 South Michigan Ave., Chicago, 3 story, 146 x 158 ft., rein.-con., brick and steel, Hinman and Lee Sts., here, to F. O. Johnson, 4856 Christiana Ave., Chicago, $200,000. Owner's name withheld. Noted Jan. 19.

**Wis., Durand**—High School—Bd. Educ. 2 story, 84 x 140 ft., brick, rein.-con. and steel, plain foundation, to Hoeppner & Bartlett Co., 441 Grand Ave., Eau Claire. Noted April 13.

**Wis., Kaukauna**—High School—Bd. Educ. 2 story, 96 x 187 ft. and 60 x 60 ft. brick, concrete and tile, plain foundation, to Hayes & Langdon, Hayes Blk., Janesville, $145,000. Noted April 27.

**Wis., Milwaukee**—Temple—Excelsior Masonic Temple Assn., 110 Reed St., 2 story, 95 x 115 ft., brick and concrete, National Ave., to Meredith Bros., 1043 Kinnickinnic Ave., $160,000.

**Ia., Gowrie**—School—Bd. Educ. 2 story, 78 x 100 ft., rein.-con., brick, tile and stone, to C. W. Getchell, 851 Penn Ave., Des Moines, $89,128. Noted May 11.

**Minn., Minneapolis**—Store and Office—Lafayette Investment Co., 3105 Girard Ave., S., general contract 2 story, 165 x 170 ft., brick and concrete, Nicollet Ave. and 11th St., to Carlsted Bros., 542 Builders Exch. Bldg., $112,000. Noted March 2.

**Kan., Parsons**—Auditorium and City Hall—City Comrs. 2 story, 100 x 140 ft. concrete, steel and brick, to Peterson Constr. Co., Salina, $115,200. Noted March 9.

**Neb., Lincoln**—Business—Star Publishing Co., 306 South 11th St., 2 story, 78 x 112 ft., brick, 12th and M Sts., to G. E. Tobin, 2105 E St. Cost to exceed $150,000.

**Mo., Maplewood**—High School—Bd. Educ. general contract 2 story, brick and steel addition, plain foundation, to J. J. Clarke Constr. Co., 804 Pine St., St. Louis, $91,000. Noted Nov. 24.

**Cal., Los Angeles**—Hospital and Dormitories—Hollenbeck Home, Boyle Ave., three 2 story, 40 x 132 ft., 40 x 173 ft. and 45 x 115 ft., rein.-con., and brick, Boyle Ave., to R. E. Millsap, 423 Marsh Strong Bldg., $235,000. Noted Jan. 26.

**Cal., Los Angeles**—Store and Loft—F. W. Braun, c/o M. Hunt, archt., 1107 Hibernian Bldg., 6 story, 150 x 200 ft., rein.-con. and stone, Pico and Main Sts., to McDonald & Kahn, Loews State Bldg. About $450,000; percentage basis.

**Cal., Richmond**—High School—Richmond School Dist., 1 and 3 story, 216 x 321 ft., rein.-con. and tile, 9th and Bissel Ave., general contract to P. M. Sanford, 914 Macdonald Ave., $124,795; heating to Scott Co., 381 11th St., Oakland, $31,988; hollow tile and brick to J. Walker, 141 South 14th St., $32,547. Noted April 20.

**Cal., San Francisco**—Home—Emanu-El Sisterhood, 3 and 5 story, rein.-con. and brick, Laguna and Page Sts., to Barrett & Hilp, 918 Harrison St., San Francisco, $137,199. Noted May 4.

## Federal Government Work

### PROPOSED WORK

**Mass., Chelsea**—Mortuary—Spec. 4635—Bureau Yards & Docks, Navy Dept., Wash., D.C., plans mortuary at Naval Hospital here.

**Del. Wilmington**—Dredging—U. S. Engineer, rejected only bid received April 24, dredging Maurice and Cohansey Rivers, N. J. Noted March 30.

**Fla., Pensacola**—Tank—Spec. 4633—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans 10,000 gal. elevated steel tank, here.

**Cal., San Diego**—Wards and Service Building—Spec. 4636—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans wards and service building, at Hospital Reservation, here.

**P. R., San Juan**—Radio Quarters, etc.—Spec. 4634—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans radio quarters and remodeling building, here.

### BIDS DESIRED

**Mass., Boston**—Barracks, etc.—**June 9,** by Treas. Dept., Wash., D. C. additional barracks power house mechanical equipment etc., U. S. Quarantine Station, Gallops Island, here. J. A. Wetmore, acting superv. archt.; adv. this issue.

**R. I., Point Judith**—Boathouse, etc.—June 7, by Treas. Dept., at U. S. Coast Guard Headquarters, Darby Bldg., Wash., D. C., boathouse and launchway, here. J. M. Moore, acting commandant, adv. this issue.

**N. Y., New York**—Roof—Spec. 4611—May 31, by Bureau Yards & Docks, Navy Dept., Wash., D. C., new roof on Monitor Bldg. 41, here. Noted April 6.

**Va., Front Royal**—Post Office—June 5, by Treas. Dept., Wash., D. C., for U. S. Post Office, here. J. A. Wetmore, acting superv. archt.; adv. this issue.

**Va., Yorktown**—Reservoir and Dispensary—Spec. 4565—May 24, by Bureau Yards & Docks, Navy Dept., Wash., D. C., reservoir and dispensary, at Mine Depot, here. Noted Jan. 5.

**Ill., Chicago**—Dredging—June 1 (change of date). U. S. Engineer, Room 1201, 537 South Dearborn St., dredging in Calumet River; adv. this issue. Noted April 20.

**Mont., Malta**—Drainage—June 28, by U. S. Recl. Serv., Malta, structures on Nelson Reservoir Canal and Vandalia Canal laterals and wastewater ditches, Milk River Project, along Great Northern Railway, in vicinity of Saco, Hinsdale, Tampico, Glasgow and Nashua. A. P. Davis, dir.

**Oregon**—Road Work—May 22, by C. H. Purches, dist. engr., Bureau Pub. Rds., U. S. Dept. Agriculture, at Portland, surfacing 14.4 mi. Sisters Sect., McKenzie Forest Rd. Project in Deschutes Natl. Forest, Deschutes Co., 28,800 cu.yd. crushed rock or gravel, etc.

### BIDS RECEIVED

**D. C., Bellevue**—Piping—Spec. 4544—Bureau Yards & Docks, Navy Dept., Wash., D. C., circulating water suction and discharge piping at Naval Experimental and Research Laboratory, here, (1) work complete, from Newport Contg. and Eng. Co., Law Bldg., Newport News, Va., (1) $11,689 (150 days) (2) $10,189 (120 days) (3) add $0.75 (4) add $4.50 deduct $0.25; Shevlin Eng. Co., 110 West 34th St., New York, (1) $19,872 (150 days) (2) $12.95 (150 days) (3) $0.80 (4) $0.14; B. Pizzimento, Hyattsville, Md., (1) $21,115 (150 days) (2) $16,121 (3) $0.80 (4) add $0.20. Noted April 27.

**Virginia**—Radio Compass Stations—Spec. 4620—Bureau Yards & Docks, Navy Dept., Wash., D. C., radio compass stations, at Hog Island and Virginia Beach, Fifth Naval Dist., (1) work complete, from A. R. Masters, Hampton, (1) $7,400 (70 days) (2) $2,050 (3) $1,250 (45 days) (4) $1,150 (50 days) (5) $1,475 (6) $1,600 (60 days); Gordon & Ward, 417 East 34th St., (1) $8,778 (2) $3,004 (3) $1,667 (4) $1,333 (5) $1,527 (6) $1,684; H. M. Lucas, 115 Maple St., Portsmouth, (1) $6,412 (60 days).

### CONTRACTS AWARDED

**Mass., South Boston** (Boston P. O.)—Substation, etc.—Spec. 4550—Bureau Yards & Docks, Navy Dept., Wash., D. C., substation, distribution system and first aid station, at Naval Drydock, here, to Simpson Bros. Corp., 77 Summer St., Boston, $94,500 (150 days). Noted May 4.

**N. Y., New York**—Barges—U. S. Engineer, Room 710, Army Bldg., one steel oil barge and one steel water barge, to Dravo Contg. Co., Diamond Bank Bldg., Pittsburgh, Pa., $41,300. Noted March 30.

**Pa., Phila.**—Dredge Pontoons, etc.—U. S. Engineer, 815 Witherspoon Bldg., 1321 Walnut St., pontoons, saddles, etc., to Turl Eng. Wks., Inc., 39 Cortlandt St., New York, $4,414; discharge pipe, to New York Shipbuilding Co., Bway. and Fairview Ave., Camden, N. J., $4,704. Noted March 16.

**D. C., Bellevue**—Roads, etc.—Spec. 4585—Bureau Yards & Docks, Navy Dept., Wash., D. C., roads and walks at Naval Experimental and Research Laboratory, here, to Corson & Gruman, 33rd and K St., N. W., Wash., $17,883 (90 days). Noted May 11.

**Va., Norfolk**—Dredging—Spec. 4604—Bureau Yards & Docks, Navy Dept., Wash., D. C., dredging at Navy Yard, here, to F. E. Jones Dredging Co., Main and Atlantic Sts., $0.29 per cu.yd. scow measurement, total $23,200 (60 days). Noted May 11.

**Ala., Tuskegee**—Hospital—Treas. Dept., Wash., D. C., for U. S. Veterans Hospital, officers quarters, administration building, mess hall and nurses quarters, here, to A. Blair, 11 South Lawrence St., Montgomery, $1,010,000. Noted April 6.

**Ala., Tuskegee**—Mechanical Equipment—Treas. Dept., Wash., D. C., mechanical equipment in U. S. Pub. Health Serv. Hospital, here, to S. W. Rittenhouse, 1327 Taylor St., Wash., D. C., $229,866 (9 months). Noted Jan. 26.

**Cal., Mare Island**—Remodeling Quarters—Spec. 4593—Bureau Yards & Docks, Navy Dept., Wash., D. C., remodeling quarters M-1, Navy Yard, here, to Fletcher & Warren, 216 Georgie St., Vallejo, $13,398, (75 days). Noted May 11.

**Cal., San Diego**—Alterations—Spec. 4592 Bureau Yards & Docks, Navy Dept., Wash., D. C., alterations to operators quarters, at Chellas Heights, here, to De Waard & Cobham, 209 Granger Bldg., $4,890 (60 days). Noted May 4.

**Samoa, Tutuila**—Radio Towers—Spec. 4600—Bureau Yards & Docks, Navy Dept., Wash., D. C., radio towers at Naval Station, here, to W. F. Martens, 112 Cutler Bldg., Rochester, N. Y., $69,935 (260 days). Noted April 27.

## Miscellaneous

### PROPOSED WORK

**Gas Mains—Rochester, N. Y.**—Rochester Gas & Electric Co., Clinton Ave. N., plans to lay about 46,000 ft. gas mains. $150,000.

**Gas Purifying Station—Rochester, N. Y.**—Rochester Gas & Electric Corp., Clinton Ave., N., plans new liquid gas purifying station. $70,000. J. P. Haftenknapp, engr.

**Telephone System—Appalachia, Va.**—Chesapeake & Potomac Telephone Co. of Virginia, Norton, plans to install telephone system. $40,000. C. Whitehead, Norton, branch mgr.

**Gas Pipe—Tampa, Fla.**—Tampa Gas Co., 201 Madison St., plans 7 mi. 6 and 8 in. c.i. gas pipe. $40,000. R. Nettles, Chapin and Boulevard Sts., engr.

**Elimination of Grade Crossings—Cleveland, O.**—City and Wheeling & Lake Erie R.R., Huron-6th Bldg., plan to eliminate grade crossings at Eway. and Ackley Ave. $543,000. Work will not proceed until 1923. R. Hoffman, City Hall, engr.

**Elimination of Grade Crossings—Cleveland, O.**—City and Cleveland, Cincinnati, Chicago & St. Louis R.R., Grand Central Sta., New York, plan to eliminate grade crossings at Junction Rd., West 41st and West 53rd Sts. $903,000. R. Hoffman, City Hall, engr.

**Elimination of Grade Crossings—Cleveland, O.**—City and Erie R.R., 50 Church St., New York, plan to eliminate grade crossings at Miles Ave., East 131st and East 65th Sts. $1,240,000. R. Hoffman, City Hall, engr.

**Elimination of Grade Crossings—Cleveland, O.**—City and New York Central R.R., Grand Central Terminal, New York, plan to eliminate grade crossings at West 47th and East 72nd Sts., Coit and Eddy Rds. $1,730,000. Work will not proceed until 1923. R. Hoffman, City Hall, engr.

**Ornamental Street Lighting System—New London, Wis.**—Having plans prepared by H. R. Albert, engr., Green Bay, ornamental lighting system on various streets, about 60-75 steel lighting standards. C. J. Thomson, clk.

**Subway—Belleville, Kan.**—Republic Co. had plans prepared 0.341 mi. subway under Rock Island R.R. tracks at Rydal, on Belleville-Rydal-Scandia Road, Sect. B, Federal Aid project 92. J. O. Gunnels, Belleville, engr.

**Stadium—Manhattan, Kan.**—K. S. A. C. Stadium Corp. making plans rein.-con. athletic stadium, first unit to contain 7,00 seats, total capacity 21,000 seats. $125,00 total $350,000. L. E. Conrad, Manhatta engr.

**Transmission Line—Ransom, Kan.**—Making plans 3 phase, 60 cycle transmission line from here to McCracken, using 30 ft. 6 in. Western Red cedar poles and having capacity of possibly 20 or 25 kilowatts. $30,000. A. Ried, c/o Kansas State Agricultural College, Manhattan, engr.

**Electric Distribution System—Duncan, Okla.**—City retained A. L. Mullergren, consult. engr., Gates Bldg., Kansas City, Mo., to prepare plans for electric distribution system. $80,000. J. F. Ewell, city mgr.

**Drilling Tests—Greybull, Wyo.**—Torchlight Oil and Gas Co., Mandan, N. D., plans oil and gas drilling tests on Torchlight Dome, 20 mi. southwest of here. $40,000.

**Power Distribution System—St. John, N. B.**—Plans to vote on bonds up to $900,000 for distribution system.

**Power Development—Quebec, Que.**—E. A. Robert, pres. Montreal Tramway Co., 78